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Flora Americæ Septentrionalis;

OR, A

SYSTEMATIC ARRANGEMENT

AND

DESCRIPTION

OF

THE PLANTS

OF

NORTH AMERICA:

CONTAINING, BESIDES WHAT HAVE BEEN DESCRIBED BY PRECEDING AUTHORS, MANY NEW AND RARE SPECIES, COLLECTED DURING TWELVE YEARS TRAVELS AND RESIDENCE IN THAT COUNTRY,

BY

FREDERICK PURSH.

IN TWO VOLUMES.

WITH TWENTY-FOUR ENGRAVINGS.

VOL. II.

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1814.

MISSOURI
BOTANICAL
GARDEN.

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XII. POLYANDRIA.

I. MONOGYNIA.

423. BEJARIA. *Cal.* 7-fidus. *Pet.* 7. *Stam.* 14. *Caps.* 7-locularis, polysperma.

424. TILIA. *Cal.* 5-partitus, deciduus. *Pet.* 5. *Stigma* sub-5-lobum. *Caps.* immatura 5-locularis, 5-valvis, 5-sperma: matura submonosperma, basi dehiscens.

425. HELIANTHEMUM. *Cal.* laciniis 5. sæpius inæqualibus: 2. extimis minoribus. *Pet.* 5. *Caps.* 1-locularis, 3-valvis; valvis medio septiferis.

426. HUDSONIA. *Cal.* 3-partitus, tubulosus. *Pet.* 5. *Stam.* 10—15. *Caps.* 1-locularis, 3-valvis, 3-sperma.

427. TALINUM. *Cal.* 5-phyllus. *Pet.* 5. *Caps.* 1-locularis, 3-valvis, polysperma.

428. PORTULACCA. *Cal.* 2-fidus. *Pet.* 5. *Caps.* 1-locularis, circumscissa.

429. CHELIDONIUM. *Cal.* 2-phyllus, deciduus. *Pet.* 4. *Caps.* 1-locularis, linearis. *Sem.* plurima, cristata.

430. GLAUCIUM. *Cal.* 2-phyllus, deciduus. *Pet.* 4. *Siliqua* 2-locularis, linearis. *Sem.* plurima, punctata.

431. PAPAVER. *Cal.* 2-phyllus, deciduus. *Pet.* 4. *Caps.* 1-locularis, sub stigmate persistente poris dehiscens.

432. SANGUINARIA. *Cal.* 2-phyllus. *Pet.* 8. *Caps.* ovata, 1-locularis.

433. ARGEMONE. *Cal.* 3-phyllus, deciduus. *Pet.* 6. *Caps.* semivalvis.

434. PODOPHYLLUM. *Cal.* 3-phyllus. *Pet.* 9. *Bacca* 1-locularis, coronata stigmate.

435. ACTÆA. *Cal.* 4-phyllus, deciduus. *Pet.* 4. *Bacca* 1-locularis. *Sem.* semiorbiculata.

436. SARRACENIA. *Cal.* duplex, 3-phyllus et 5-phyllus. *Pet.* 5. *Caps.* 5-locularis. *Stylus* stigmate clypeatus.

437. LEWISIA. *Cal.* 7—9-phyllus, scariosus. *Pet.* 14—18. *Stylus* 3-fidus. *Caps.* 3-locularis, polysperma. *Semina* nitida.

438. NYMPHÆA. *Cal.* 4–5-phyllus. *Pet.* plurima, germini sub staminibus inserta. *Stigma* radiatum, sessile, medio nectariferum. *Bacca* multilocularis, polysperma.

439. NUPHAR. *Cal.* 5–6-phyllus. *Pet.* plurima, receptaculo cum staminibus inserta, dorso nectarifera. *Stigma* radiato-sulcatum, sessile. *Bacca* multilocularis, polysperma.

440. CERATOPHYLLUM. *Cal.* multipartitus: femineus 6-phyllus, imbricatus. *Cor.* 0. *Anth.* tricuspidatæ. *Nux* 1-sperma. *Monoicum.*

II. DI-PENTAGYNIA.

441. CALLIGONUM. *Cal.* 5-partitus. *Cor.* 0. *Styli* 4. *Nux* 1-locularis, 4-alata. *Dioicum.*

442. DATISCA. *Cal.* 5-phyllus: femineus 2-dentatus. *Cor.* 0. *Anth.* sessiles, oblongæ, 15. *Styli* 3. *Caps.* 3-angularis, 3-cornis, 1-locularis. *Dioica.*

443. MENISPERMUM. *Cal.* 0. *Pet.* 4. exteriora; 8. interiora. *Stam.* 6. 8. 12. 16. *Pist.* 2–3. *Baccæ* 1–2, monospermæ. *Dioicum.*

444. DELPHINIUM. *Cal.* 0. *Pet.* 5. *Nectar.* 2-fidum, postice cornutum. *Caps.* 1—3. seu 5.

445. ACONITUM. *Cal.* 0. *Pet.* 5. supremo fornicato. *Nectar.* 2. pedunculata, recurva. *Caps.* 3. seu 5.

446. AQUILEGIA. *Cal.* 0. *Pet.* 5. *Nectar.* corniculata, inter petala. *Caps.* 5. distinctæ.

447. CIMICIFUGA. *Cal.* 4–5-phyllus. *Pet.* 4—8. cartilaginea. *Caps.* 1—5. seu plures, oblongæ, sutura laterali dehiscentes, polyspermæ.

448. ASCYRUM. *Cal.* 4-phyllus: 2. interioribus majoribus. *Pet.* 4. *Filam.* in 4. phalanges digesta. *Caps.* oblonga, 1-locularis, 2-valvis, calyce inclusa.

449. HYPERICUM. *Cal.* 5-partitus, laciniis subæqualibus. *Pet.* 5. *Filam.* vix basi connata. *Caps.* subrotunda: loculis numero stylorum: 1–2–3—5.

450. ELODEA. *Cal.* 5-partitus, æqualis. *Pet.* 5. unguibus nectariferis. *Filam.* 10—15. in 3. phalanges connata. *Glandulæ* inter phalanges. *Styli* 3. divergentes. *Caps.* 3-locularis.

III. POLYGYNIA.

* *Flores vagi.*

451. ILLICIUM. *Cal.* 6-phyllus. *Pet.* 27. *Caps.* plures, in orbem digestæ, 2-valves, 1-spermæ.
452. MAGNOLIA. *Cal.* 3-phyllus. *Pet.* 6—9. *Caps.* 2-valves, 1-spermæ, in strobilum imbricatæ. *Sem.* pendula.
453. LIRIODENDRON. *Cal.* 3-phyllus. *Pet.* 6. *Samaræ* imbricatæ in strobilum. *Caps.* 1–2-spermæ; non dehiscentes.
454. PORCELIA. *Cal.* 3-phyllus. *Pet.* 6. interiora majora. *Stigmata* sessilia, obtusa. *Baccæ* plures aut abortione subsolitariæ, ovoideo-subreniformes, polyspermæ. *Sem.* sutura interna adnexa, arillata.
455. ATRAGENE. *Cal.* 0. *Cor.* 4—6-petala. *Nectaria* 4. spathulata, petalis alternantia. *Filam.* exteriora dilatata subantherifera. *Sem.* aristata, aristis pilosis.
456. CLEMATIS. *Cal.* 0. *Pet.* 4—6. *Sem.* caudata, cauda plumosa.
457. ANEMONE. *Cal.* 0. *Pet.* 6—9. *Sem.* ecaudata.
458. THALICTRUM. *Cal.* 0. *Pet.* 4—5. *Stam.* longissima. *Sem.* ecaudata, striata, teretia.
459. HYDRASTIS. *Cal.* 0. *Pet.* 3. *Bacca* composita, acinis monospermis.
460. BRASENIA. *Cal.* 0. *Pet.* 6. persistentia: 3. interiora longiora. *Caps.* 6—10. oblongæ, dispermæ.
461. CALTHA. *Cal.* 0. *Pet.* 5. decidua. *Caps.* plurimæ, polyspermæ.
462. COPTIS. *Cal.* 0. *Pet.* 5–6. caduca. *Nectar.* 5–6. cucullata. *Caps.* 5–8. stipitatæ, stellatæ, rostratæ, polyspermæ.
463. TROLLIUS. *Cal.* 0. *Pet.* 5—8. decidua. *Nectar.* 5—8. linearia. *Caps.* plurimæ, sessiles, polyspermæ.
464. HEPATICA. *Cal.* 3-phyllus. *Pet.* 6—9. *Sem.* nuda.
465. RANUNCULUS. *Cal.* 5-phyllus. *Pet.* 5. intra ungues poro mellifero. *Sem.* nuda.
466. SAGITTARIA. *Cal.* 3-phyllus. *Pet.* 3. *Caps.* aggregatæ, 1-spermæ. *Polygama.*
467. CYAMUS. *Cal.* 4–5-phyllus. *Pet.* plurima. *Fructus* turbinatus, in disco truncato foveis plurimis excavatus 1-spermis. *Nuces* ovatæ, stylo persistente coronatæ.

** *Flores spathacei. Spadix simplex.*

468. POTHOS. *Spatha* cucullata. *Spadix* floribus tectus. *Cal.* 0. *Pet.* 4. *Baccæ* 2-spermæ.
469. CALLA. *Spatha* planiuscula. *Spadix* floribus tectus. *Cal.* et *Cor.* 0. *Baccæ* polyspermæ.
470. ARUM. *Spatha* cucullata. *Spadix* supra nudus, inferne femineus, medio stamineus. *Cal.* et *Cor.* 0. *Baccæ* utplurimum 1-spermæ.

I. *MONOGYNIA.*

423. BEJARIA. *Gen. pl.* 811. *Vent. hort. cels p.* 51.

racemosa. 1. B. foliis ovato-lanceolatis glabris, floribus racemoso-paniculatis terminalibus.—*Vent. l. c.*
Befaria paniculata. *Mich. fl. amer.* 1. p. 280.
Icon. *Mich. l. c. t.* 26. *Vent. l. c. t.* 51.
α. B. foliis utrinque acutis, caule hispido.
β. B. foliis obovatis obtusiusculis, caule glabro.
In sandy woods, on the banks of swamps and ponds: Georgia and Florida: particularly plentiful on the Island of St. Mary's. ♄. June. *v. v.* A beautiful shrub, from three to four feet high; flowers white, tinged with red, of an agreeable scent.

424. TILIA. *Gen. pl.* 894.

glabra. 1. T. foliis suborbiculato-cordatis abrupte acuminatis argute serratis subcoriaceis glabris, petalis apice truncatis crenatis, stylo petalis subæquali, nuce ovata subcostata.—*Vent. in mem. de l'instit. sc. phys.* 4. *p.* 9. *t.* 2.
T. americana. *Willd. sp. pl.* 2. *p.* 1162.
T. caroliniana. *Wangh. amer.* 56.
T. canadensis. *Mich. fl. amer.* 1. *p.* 306.
Icon. *Vent. l. c. t.* 2. *Mich. arb. t.* . . . .
In the woods of Canada and the northern United States, and on the mountains, as far south as Carolina. ♄. May, June. *v. v.* This tree is known by the name of *Lime-* or *Line-tree*; *Basswood*; *Spoonwood*; and is both useful and ornamental.

2. T. foliis cordatis sensim acuminatis rariter dentatis membranaceis glabris, paniculis laxifloris, petalis emarginatis, stylo petalis longiore, nuce globosa.—*Mich. fl. amer.* 1. *p.* 306. *laxiflora.*

Icon. *Mich. arb. t.* ....

Near the sea-coast: Maryland to Georgia. ♄. May, June. *v. v. s. fl.* A very distinct species, though generally confounded with the foregoing one.

3. T. foliis basi truncatis obliquis acuminatis denticulato-serratis subtus pubescentibus, paniculis confertifloris, petalis emarginatis, stylo petalis subæquali, nuce globosa lævi.—*Vent. in mem. de l'instit. sc. phys.* 4. *p.* 10. *t.* 3. *Willd. sp. pl.* 2. *p.* 1162. *pubescens.*

T. caroliniana. *Mill. dict. no.* 4.

T. americana. *Walt. fl. car.* 153. *Wangh. amer.* 55.

β. T. foliis laxe serratis tenuissimis subpapyraceis. *Vent. l. c. p.* 11. leptophylla.

In close copses and on the banks of rivers: Virginia to Georgia. ♄. May—July. *v. v.* The variety *β.* can scarcely be considered a distinct species, unless the flowers and fruit should prove it so, both of which I have not seen.

4. T. foliis ovatis basi oblique aut æqualiter truncatis cordatisque argute serratis subtus niveo-tomentosis, nuce globosa subcostata. *Vent. l. c. p.* 16. *t.* 5. *heterophylla.*

On the banks of the Ohio and Mississippi. ♄. June. *v. s.* A very handsome and desirable ornamental tree.

425. HELIANTHEMUM. *Juss. gen. pl.* 326.

Cisti *spec. Gen. pl.* 913.

1. H. exstipulatum, erectum; foliis alternis erectis lineari-lanceolatis planis subtus tomentosis, racemis terminalibus paucifloris, calycis laciniis lato-ovatis acuminatis, capsulis calyce brevioribus.—*Willd. sp. pl.* 2. *p.* 1199. *sub Cisto.* *canadense.*

In dry fields and pine woods: Canada to Carolina. ♃. June. *v. v.* Flowers, as in all the following species, yellow.

2. H. exstipulatum, erectum, pulverulento-tomentosum; foliis alternis oblongis acutis margine revolutis subtus tomentosis, racemis brevissimis, summitate subtrifloris, calycis laciniis orbiculatis pulverulentis, capsulis globosis longitudine calycis.—*Mich. fl. amer.* 1. *p.* 307. *ramuliflorum.*

Menandra ramis alternis. *Clayt. fl. virg.* 20.
In sandy fields: New Jersey to Carolina. ♃. July. *v. v.* Flowers small.

corymbosum. 3. H. exstipulatum, erectum, ramosum, minutim pubescens; foliis alternis lanceolatis subtus cano-tomentosis, corymbis fastigiatis confertim multifloris, calycis laciniis ovatis acutis, capsulis calyce vix longioribus.—*Mich. fl. amer.* 1. *p.* 307.
In dry barren sand-fields, particularly along the sea-coast: New Jersey to Georgia. ♃. June—Aug. *v. v.* Flowers very small, sometimes without petals; from which circumstance this and the foregoing species have been mistaken for *Lechea major*.

rosmarinifolium. 4. H. exstipulatum, stricte-erectum, simplex, canescens; foliis linearibus margine revolutis subtus cano-tomentosis, racemulis axillaribus interrupte confertifloris, calycis laciniis ovatis acutis, petalis calyce triplo longioribus.
In pine-barrens: Georgia. *Enslen.* ♃. July. *v. s. in Herb. Enslen.* Flowers bright yellow.

carolinianum. 5. H. exstipulatum, hirsutum, erectum; foliis alternis oblongo-ovalibus subdenticulatis, imis obovalibus utrinque hirsutis, pedunculis terminalibus paucis calycibusque villosissimis, calycis laciniis oblongis acutis petalis brevioribus.—*Mich. fl. amer.* 1. *p.* 307.
Cistus carolinianus. *Walt. fl. car.* 152.
Icon. *Vent. cels* 74.
In pine-barrens of Carolina and Georgia. ♃. June—Aug. *v. v.* Flowers and leaves larger than in any other species.

426. HUDSONIA. *Gen. pl.* 822. *Willd. hort. berol.* 15.

ericoides. 1. Hudsonia. *Willd. sp. pl.* 2. *p.* 858.
Icon. *Willd. hort. berol.* 15. *Berg. act. holm.* 1778. *t.* 2.
In pine-barrens of New Jersey and Virginia. ♄. May, June. *v. v.* Flowers yellow. This delicate little shrub, not above six inches high, covers large tracts of sandy pine-woods in a similar manner as common heath.

427. TALINUM. *Juss. gen. pl.* 346.

1. T. foliis cylindricis carnosis, corymbis terminalibus pedunculatis. *teretifolium.*
On sunny rocks: Delaware and Virginia. ♃. July. *v. v.* Flowers purple.

428. PORTULACCA. *Gen. pl.* 824.

1. P. foliis cuneiformibus, floribus sessilibus. *Willd. sp. pl.* 2. *p.* 859. *oleracea.*
Icon. *Schkuhr handb.* 130.
Purslane is a common weed in gardens.

429. CHELIDONIUM. *Gen. pl.* 880.

1. C. foliis alternis pinnatis lobatis, umbellis axillaribus pedunculatis.—*Willd. sp. pl.* 2. *p.* 1141. *majus.*
Icon. *Fl. dan.* 542. *Engl. bot.* 1581.
Near old buildings and among rocks: New England and Pensylvania; probably introduced. ♃. May, June. *v. v.* The yellow fluid which it affords by breaking the stems, is considered an infallible remedy in curing warts and corns.

2. C. caulibus in summitate geminatim diphyllis, foliis sessilibus lobato-pinnatifidis, pedunculo solitario unifloro, capsula oblongo-ovata.—*Mich. fl. amer.* 1. *p.* 309. *diphyllum.*
In shady woods, near rivulets: Kentucky and Tennassee. *Michaux.* ♃. May. *v. s.* Resembles *Sanguinaria* very much, and seems to be the connecting link to both genera.

430. GLAUCIUM. *Juss. gen. pl.* 261.

1. G. caule glabro, foliis caulinis amplexicaulibus repandis, pedunculis unifloris, siliqua tuberculato-scabriuscula. *Smith fl. brit.* 2. *p.* 563. *luteum.*
Chelidonium Glaucium. *Willd. sp. pl.* 2. *p.* 1142.
Icon. *Fl. dan.* 585. *Engl. bot.* 8.
On the sea-coast of Virginia and Carolina. ⊙. June, July. *v. v.* Flowers large, yellow.

431. PAPAVER. *Gen. pl.* 881.

1. P. capsulis hispidis, scapo unifloro nudo hispido, foliis subpinnatis, foliolis lanceolatis; inferioribus subincisis. —*Willd. sp. pl.* 2. *p.* 1145. *nudicaule.*

Icon. *Fl. dan.* 41. *Dill. elth. t.* 224. *f.* 291.
In Labrador. *Colmaster.* ♂. *v. s. in Herb. Dickson.* Flowers yellow.

432. SANGUINARIA. *Gen. pl.* 878.

canadensis. 1. S. folio subreniformi sinuato-lobato, scapo unifloro.—*Willd. sp. pl.* 2. *p.* 1140.
Icon. *Bot. mag.* 162. *Dill. elth. t.* 252.
stenopetala. *β*. S. petalis linearibus.
In dry woods, generally in fertile soil: Canada to Florida. ♃. March, April. *v. v.* Flowers white; the number of petals is variable; and with little care and attention a fine double variety might be produced. It is known by the name of *Blood-wort.*

433. ARGEMONE. *Gen. pl.* 882.

mexicana. 1. A. capsulis 5-valvibus, foliis pinnatifidis incisis spinosis, floribus axillaribus.—*Willd. sp. pl.* 2. *p.* 1148.
Icon. *Bot. mag.* 243.
On banks of rivers: Carolina to Florida. ⊙. July, Aug. *v. v.* Flowers yellow, large. In Georgia is a variety with white flowers, which has a beautiful appearance.

434. PODOPHYLLUM. *Gen. pl.* 879.

peltatum. 1. P. caule unifolio unifloro, folio peltato palmato: lobis cuneatis incisis.—*Willd. sp. pl.* 2. *p.* 1141.
Icon. *Trew ehret. t.* 29. *Catesb. car.* 1. *t.* 24.
In shady woods, in large patches, generally on moist ground: New England to Carolina. ♃. March, April. *v. v.* Flower white; the fruit is the size of a common plum, green, eatable, and known by the name of *May-apple;* the root is sometimes used as Ipecacuanha.

435. ACTÆA. *Gen. pl.* 877.

americana. 1. A. foliis decompositis: foliolis oblongis sensim acutis inciso-serratis, racemo ovato, petalis staminibus brevioribus.
A. spicata. *Mich fl. amer.* 1. *p.* 308.
A. rubra. *Willd. enum.* 560.
alba. *α*. A. baccis niveis.
Icon. *Corn. canad. t.* 77. *Moris. hist.* 2. *s.* 1. *t.* 2. *f.* 7.

β. A. baccis rubris. *rubra.*

In shady rocky woods, in rich vegetable mould: Canada to Virginia; principally on the mountains. ♃. April, May. *v. v.* Flowers white; berries white or red; known by the name of *Red* and *White Cohosh,* and considered by the natives as a valuable medicine. *A. spicata* differs not only in its foliage, but the petals are the length of the stamina.

436. SARRACENIA. *Gen. pl.* 885.

1. S. foliis brevibus, tubo ventricoso-gibbo, fauce coarctato, ala ventrali arcuatim elatiore, appendice erecta subreniformi-cordata mutica sessili. *Mich. fl. amer.* 1. *p.* 310. *Willd. sp. pl.* 2. *p.* 1150. *purpurea.*

Icon. *Bot. mag.* 849. *Mill. ic.* 241. *Catesb. car.* 2. *t.* 70. *Pluk. amalth. t.* 376. *f.* 6.

In cedar swamps and sphagnous marshes: Canada to Carolina. ♃. June, July. *v. v.* Flowers purple, large. This singular and handsome plant is, with all the following, a very desirable object in the collection of the admirers of nature; they bear cultivation, in pots filled half way with sphagnum, extremely well.

2. S. foliis elongatis, tubo superne dorso maculato, in appendicem tornicatim incurvatam brevem desinente, ala ventrali lineari-lanceolata. *Mich. fl. amer.* 1. *p.* 310. *variolaris.*

β. minor. *Walt. fl. car.* 153.

S. adunca. *Smith exot. bot.* 1. *t.* 53.

In open swamps, on sandy soil: North Carolina to Florida. ♃. June, July. *v. v.* Flowers yellow. The transparent spots on the back of the leaf distinguish this species very easily from the following, with which it has often been confounded.

3. S. foliis strictis longissime infundibuliformibus, fauce patula, ala ventrali subnulla, appendice erecta basi coarctata ima parte lateribus retroflexis, mucrone subulato. *Mich fl. amer.* 1. *p.* 310. *Willd. sp. pl.* 2. *p.* 1150. *flava.*

Icon. *Bot. mag.* 780. *Bot. rep.* 381. *Catesb. car.* 2. *t.* 69. *Pluk. amalth. t* 376. *f.* 5.

In open swamps: Virginia to Florida. ♃. June, July. *v. v.* Flowers yellow. This is the tallest growing sort; the leaves are often two feet long.

psittacina. 4. S. foliis brevibus superne coloratis venoso-reticulatis, ala ventrali sursum subcuneatim latescente, tubo sensim in appendicem recurvatam rotundatim fornicatam mucronatam desinente. *Mich. fl. amer.* 1. *p.* 311.
S. rubra. *Walt. fl. car.* 152.
Icon. *Pluk. amalth. t.* 152. *f.* 3?
In swamps of Georgia and Florida. ♃. June, July. *v. v.* Flowers on very long peduncles, purple; leaves small, very handsomely marked with purple veins.

437. LEWISIA. *Pursh in linn. trans. v.* 11.

rediviva. 1. Lewisia. *l. c.*
On the banks of Clarck's river. ♃. July. *v. s. in Herb. Lewis.* Petals white; calyx elegantly red-veined, of a consistency like paper.
Radix fusiformis, ramosa, sanguinea. *Folia* radicalia linearia, subcarnosa, obtusiuscula. *Scapus* uniflorus? an biflorus. *Pedicellus* basi geniculatus. *Calyx* coloratus, scariosus, 7—9-phyllus, patens: foliolis ovatis, acutis, concavis, nervoso-venosis, interioribus angustioribus. *Petala* 14—18. alba, lanceolata, patentia, calyce vix duplo longiora. *Filamenta* 14—18. receptaculo petalis opposite inserta, filiformia, calyce breviora. *Antheræ* oblongæ, erectæ. *Germen* superum, ovatum, glabrum. *Stylus* filiformis, staminibus paulo longior, superne trifidus. *Stigmata* 3. bifida. *Capsula* oblonga, 3-locularis: loculis bispermis. *Semina* lenticularia, nitida, nigra.
This elegant plant would be a very desirable addition to the ornamental perennials, since, if once introduced, it would be easily kept and propagated, as the following circumstance will clearly prove. The specimen with roots taken out of the Herbarium of M. Lewis, Esq. was planted by Mr. M'Mahon of Philadelphia, and vegetated for more than one year: but some accident happening to it, I had not the pleasure of seeing it in flower.

438. NYMPHÆA. *Gen. pl.* 886.

Castalia. *Salisb. in annals of bot.* 2. *p.* 71.

odorata. 1. N. foliis orbiculato-cordatis integerrimis subemarginatis, lobis divaricatis, acumine obtuso, petalis calyce 4-

4-phyllo æqualibus, stigmate radiis 16—20. erectis.—*Willd. sp. pl.* 2. *p.* 1153.
N. alba. *Mich. fl. amer.* 1. *p.* 311. *Walt. fl. car.* 155.
Castalia pudica. *Salisb. l. c. p.* 72.
Icon. *Bot. mag.* 819. *Bot. rep.* 297.

β. N. foliis cordatis integerrimis obtusis, lobis divaricatis acutis, petiolis pedunculis foliisque subtus purpureis, calycibus petalisque extus roseis. *rosea.*
Icon. *Willd. hort. berol.* 39?
In ponds and slow-flowing waters: Canada to Carolina. ♃. July. *v. v.* Flowers white, fragrant. The variety β. is probably a distinct species, which only further observation can decide. It resembles *N. pygmæa.*

439. NUPHAR. *Smith prodr. fl. græc.* 1. *p.* 361.

Nymphæa. *Gen. pl.* 886. *Salisb. in annals of bot.* 2. *p.* 71.

1. N. foliis cordatis integerrimis, lobis approximatis, calyce 5-phyllo, stigmate repando 14—20-radiato profunde umbilicato.—*Ait. kew. ed.* 2. *v.* 3. *p.* 295. *lutea.*
Nymphæa lutea. *Willd. sp. pl.* 2. *p.* 1151.
Nymphæa umbilicalis. *Salisb. l. c.*
Icon. *Engl. bot.* 159.
In lakes on the Allegany mountains. ♃. June, July. *v. v.* Flowers yellow, as are all the following species.

2. N. foliis erectis cordatis integerrimis, lobis divaricatis, calyce 6-phyllo, stigmate leviter umbilicato 13-radiato, pericarpio sulcato.—*Ait. kew. ed.* 2. *v.* 3. *p.* 295. *advena.*
Nymphæa advena. *Willd. sp. pl.* 2. *p.* 1152.
Nymphæa arifolia. *Salisb. l. c.*
Icon. *Bot. mag.* 684. *Willd. hort. berol.* 38.
In all ponds and ditches, even in salt water: Canada to Carolina. ♃. July, Aug. *v. v.* Resembles the foregoing species, but is distinguished at first sight by its upright leaves.

3. N. foliis cordatis, lobis subapproximatis, calyce 5-phyllo, stigmate inciso 8—12-radiato. *Ait. kew. ed.* 2. *v.* 2. *p.* 295. *Kalmiana.*
Nymphæa lutea β. Kalmiana. *Mich. fl. amer.* 1. *p.* 311.
Nymphæa lutea. *Walt. fl. car.* 154.
Icon. *Bot. mag.* 1243.
In ponds: Canada to Carolina; rare. ♃. July, Aug. *v. v.* Flowers very small in comparison with others.

sagittæfolia. 4. N. foliis elongatis sagittato-cordatis obtusis, calyce 6-phyllo, petalis nullis, antheris subsessilibus.—*Salisb. l. c.*

Nymphæa sagittifolia. *Walt. fl. car.* 155.

Nymphæa longifolia *Mich. fl. amer.* 1. *p.* 312.

In slow-flowing waters: Carolina and Georgia. ♃. July, Aug. *v. s.* Flowers small.

440. CERATOPHYLLUM. *Gen. pl.* 493. *Willd. act. ac. berol.* 1798. *p.* 84.

demersum. 1. C. foliis verticillatis octonis dichotomo-bigeminis dorso dentatis spinulosis, floribus axillaribus solitariis sessilibus, fructibus 3-spinosis.—*Willd. sp. pl.* 4. *p.* 405.

Icon. *Engl. bot.* 947.

In ditches and stagnant waters, floating: New York to Virginia. ♃. July, Aug. *v. v.* Flowers exceeding small.

II. *DI-PENTAGYNIA.*

441. CALLIGONUM. *Gen. pl.* 834.

canescens. 1. C. dioicum, pulverulento-tomentosum; foliis lanceolatis, floribus axillaribus glomeratis in apice ramulorum subspicatis, fructibus alatis, alis venosis cristato-dentatis.

In the plains of the Missouri, near the Big-bend. ♄. July, Aug. *v. s. in Herb. Lewis.* Flowers exceeding small. Goats delight to feed upon this shrub.

442. DATISCA. *Gen. pl.* 1543.

hirta. 1. D. caule hirsuto, foliis pinnatis, foliolis basi confluentibus.—*Willd. sp. pl.* 4. *p.* 823.

In Pensylvania. *Kalm.* ♃. +. Flowers yellow, small, in terminal panicles. I never had an opportunity of seeing this plant myself.

443. MENISPERMUM. *Gen. pl.* 1544.

canadense. 1. M. foliis peltatis cordatis subrotundo-angulatis, racemis compositis.—*Willd. sp. pl.* 4. *p.* 824.

β. M. foliis lobatis. lobatum.
M. virginicum. *Willd. sp. pl.* 4. *p.* 824. *excl. syn. Dill. elth.*
On the banks of rivers and sides of fertile hills, climbing among other shrubs. ♄. July. *v. v.* Flowers greenish yellow; berries black, resembling grapes. *M. folio hederaceo, Dill. elth. t.* 178. *f.* 219. belongs to *M. carolinianum* or *Wendlandia.*

2. M. foliis cordatis palmato-lobatis longissime pedicellatis, racemis simplicibus, floribus hexapetalis dodecandris. *Lyoni.*
In Kentucky and Tennassee. ♃. June, July. *v. v. s. fl.*; *v. s. in Herb. Lyon.* Berries large, black, one-seeded. Stem climbing to the height of twenty feet; leaves large.

444. DELPHINIUM. *Gen. pl.* 924.

1. D. pumilum; caule simplici, foliis palmato-multifidis, laciniis sublanceolatis obtusiusculis, fasciculo paucifloro, cornu recto corolla breviore, capsulis 3. compressis arcuatis subreflexo-patulis.—*Mich. fl. amer.* 1. *p.* 314. *tricorne.*
On the side of shady and fertile hills, on the banks of rivers: Virginia to Carolina; particularly plentiful about Harper's Ferry on the Potowmac, Virginia. ♃. April, May. *v. v.* Not above eight inches high; flowers beautiful blue.

2. D. caule stricto simplici, foliis lineari-multipartitis, spica floribus breviter pedicellatis, cornu sursum arcuato, petalis villosissimis, capsulis ternis. *Mich. fl. amer.* 1. *p.* 314. *azureum.*
D. carolinianum. *Walt. fl. car.* 155.
On the borders of woods, in sandy soil: Carolina and Georgia. On the banks of the Missouri and Mississippi. ♃. May, June. *v. s.* Flowers beautiful sky-blue, large. W. Bartram mentions this very handsome species in his Travels.

3. D. caule glabro subramoso, foliis tripartito-palmatis, laciniis lanceolatis subtrifidis, spicis strictis, cornu recto longitudine corollæ, capsulis ternis.—*Willd. sp. pl.* 2. *p.* 1230. *exaltatum.*
D. tridactylum. *Mich. fl. amer.* 1. *p.* 314.
D. urceolatum. *Jacq. collect.* 1. *p.* 153.
Icon. *Mill. ic. t.* 250. *f.* 2. *Jacq. ic. rar.* 1. *t.* 101.

In rocky shady places, in the moutains of Virginia and Carolina. ♃. July. *v. v.* From two to four feet high.

Consolida. 4. D. pubescens; caule erecto ramoso, foliis lineari-multipartitis, cornu adscendente corollam subæquante, nectario monophyllo, capsula solitaria.—*Willd. sp. pl.* 2. *p.* 1226.

Icon. *Fl. dan.* 683.

In fields and woods: Pensylvania and Virginia. ☉. June, July. *v. v.* Common *Lark-spur*, probably introduced with the seeds of grain from Europe.

445. ACONITUM. *Gen. pl.* 928.

uncinatum. 1. A. floribus subpentagynis, foliis 3—5-lobis inciso-dentatis, corollarum galea longius extensa.—*Willd. sp. pl.* 2. *p.* 1238.

In swamps and on the side of rivulets, on the high mountains of Virginia and Carolina. ♃. June, July. *v. v.* Flowers large, of a fine blue and singular structure. On the foot of the Peaks of Otter and about the Sweet-springs another species occurs, with smaller flowers, and a climbing stem which sometimes attains the height of nine feet; but unfortunately I have no materials at present to give a correct description thereof.

446. AQUILEGIA. *Gen. pl.* 934.

canadensis. 1. A. cornibus rectis, staminibus exertis.—*Willd. sp. pl.* 2. *p.* 1247.

Icon. *Bot. mag.* 246. *Rob. ic.* 296.

In the crevices of rocks: Canada to Carolina. ♃. April, May. *v. v.* Flowers scarlet, mixed with yellow.

447. CIMICIFUGA. *Gen. pl.* 993.

Serpentaria. 1. C. foliis decompositis, foliolis ovato-oblongis incisis dentatis: dentibus mucronatis divaricatis, racemis virgatim paniculatis elongatis, floribus submonogynis, capsulis ovatis.

Actæa racemosa. *Willd. sp. pl.* 2. *p.* 1139.

Actæa monogyna. *Walt. fl. car.* 151.

Icon. *Dill. elth. t.* 67. *f.* 78. *Schkuhr handb.* 139. *Pluk. amalth. t.* 383. *f.* 3.

In shady, stony woods: Canada to Florida. ♃. July, Aug. *v. v.* A tall stately plant; spikes long, white; generally known under the name of *Black Snake-root.*

2. C. foliis decompositis, foliolis ovatis incisis dentatis, dentibus acutis, racemis paniculatis nutantibus, floribus 5-gynis, capsulis ovatis uncinatis.—*Willd. sp. pl.* 2. *p.* 1244. *fœtida.*
Actæa Cimicifuga. *Sp. pl.* 722.
Icon. *Lam. illustr.* 487. *Amœn. acad.* 7. *t.* 6. *f.* 2.
On the north-west coast. ♃. July, Aug. *v. v.*

3. C. foliis decomposito-biternatis, foliolis cordatis lobatis serrato-dentatis, racemis virgatim-paniculatis elongatis, floribus 2—5-gynis, germinibus glabris. *cordifolia.*
C. americana. *Mich. fl. amer.* 1. *p.* 316.
In shady woods, on high mountains of Carolina. ♃. July. *v. v.; v. s. in Herb. Lambert.* Resembles the foregoing very much in general habit.

4. C. foliis simplicibus palmatis, floribus dichotome-paniculatis subcorymbosis polygynis, capsulis brevissimis subgloboso-capitatis.—*Mich. fl. amer.* 1. *p.* 316. *palmata.*
Actæa racemosa. *Herb. Walt.*
In the beds of mountain rivulets in Virginia and Carolina. ♃. July, Aug. *v. v.* A very tall and handsome plant; the leaves very large, and the flowers in great abundance.

448. ASCYRUM. *Gen. pl.* 1225.

1. A. pusillum, simplex; foliis ovalibus obtusis, pedicellis longis reflexis, floribus 1–2-gynis.—*Mich. fl. amer.* 2. *p.* 77. *pumilum.*
A. nummularifolium. *Herb. Banks. mss.*
In pine-barrens of Georgia. ♃. June—Aug. *v. s.* Not above three inches high; flowers small, yellow, as are all the following species.

2. A. multicaule, diffusum; foliis sublanceolato-oblongis obtusis, corymbo terminali, floribus subsessilibus 2-gynis, caule subtereti.—*Willd. sp. pl.* 3. *p.* 1472. *Crux Andreæ.*
A. multicaule. *Mich. fl. amer.* 2. *p.* 77.
In sandy fields and woods: New Jersey to Carolina. ♄. July. *v. v.* Not above a foot high; flowers pale yellow; petals narrow.

3. A. erectum, ramosum; ramis ancipitibus, foliis oblon- *hypericoides.*

gis basi biglandulosis, floribus terminalibus solitariis breviter pedicellatis 3-gynis.—*Willd. sp. pl.* 3. *p.* 1473.

A. stans. *Mich. fl. amer.* 2 *p.* 77.

In low overflowed open places, generally in sandy soil: New Jersey to Carolina. ♄. July, Aug *v. v.* Flowers larger than the former species: it is from one to two feet high.

amplexicaule. 4. A. erectum; caule superne dichotome-paniculato, ramis ancipitibus, foliis ovato-oblongis amplexicaulibus, foliolis calycinis exterioribus cordatis, floribus 3–4-gynis.—*Mich. fl. amer.* 2. *p.* 77.

A. stans. *Willd. sp. pl.* 3. *p.* 1475.

Hypericum tetrapetalum. *Lam. encycl.* 4. *p.* 153.

In low grounds and woods: Virginia to Florida. ♄. July, Aug. *v. v.* The flowers and leaves larger than any other sort.

449. HYPERICUM. *Gen. pl.* 1224.

* *Pentagyna.*

Kalmianum. 1. H. fruticosum, ramosissimum; ramulis 4-gonis, foliis lineari-lanceolatis, corymbis terminalibus 3—7-floris, laciniis calycis lanceolatis obtusiusculis, capsulis longitudine calycis.—*Willd. sp. pl.* 3. *p.* 1438.

H. Bartramianum. *Mill. dict. n.* 10.

In Pensylvania and Virginia. ♄. June, July. *v. s. in Herb. Lambert. v. v in Hortis.* From three to five feet high: the flowers of the whole genus are yellow.

pyramidatum. 2. H. herbaceum, erectum; caule subtetragono ramoso, foliis sessilibus oblongis acutis glabris, floribus terminalibus, stylis staminibus brevioribus, calycinis foliolis ovatis acutis.—*Willd. sp. pl.* 3. *p.* 1444.

H. amplexicaule. *Lam. encycl.* 4. *p.* 147.

Icon. *Vent. malm.* 118.

In Canada? ♃. July, Aug. *v. v. in Hortis.* Flowers the size of *H. Ascyrum.*

ascyroides. 3. H. herbaceum, glabrum; caule simplici 4-gono, foliis sessilibus oblongis acutis glabris, floribus terminalibus, stylis longitudine staminum, calycinis foliolis ovato-lanceolatis.—*Willd. sp. pl.* 3. *p.* 1443.

H. macrocarpum. *Mich. fl. amer.* 2. *p.* 82.

In Canada and the western parts of New York and Pensylvania. ♃. July, Aug. *v. v.* Flowers the largest of all the species here enumerated.

** *Trigynæ. Fruticosæ.*

4. H. ramis ancipitibus, foliis ovali-oblongis obtusis mucronatis basi angustatis, floribus terminalibus subsolitariis, calycinis foliolis oblongis acutis staminibusque petalis æquantibus, stylis coadunatis longitudine staminum. *Mich. fl. amer.* 2. *p.* 81. *frondosum.*

H. elatum. *Ait. kew.* 3. *p.* 104?

In shady rocky places in Kentucky and Tennassee. ♄. July, Aug. *v. v.* Resembles *H. Ascyrum* very much; the leaves of the calyx are broad, and sometimes longer than the petals.

5. H. ramis ancipitibus, foliis ellipticis margine crispato-revolutis supra opacis subtus glaucis, floribus terminalibus subsolitariis sessilibus, calycinis foliolis ovatis acuminatis, petalis deflexis staminibus longioribus, stylis coadunatis longitudine staminum. *amœnum.*

In South Carolina and Georgia. *Lyon.* ♄. July, Aug. *v. v.* This elegant species grows to the height of about two feet or more. Every branchlet has from one to three large flowers, of a bright golden yellow; the petals turn downwards, and leave the large crown of stamina in an upright situation, which, with the beautiful red ovate germen in the centre, gives the flower a particularly pleasing appearance.

6. H. ramis ancipitibus, foliis lanceolato-linearibus obtusiusculis, corymbis axillaribus et terminalibus paucifloris, floribus primordialibus sessilibus staminibus stylisque longitudine petalorum, calycinis foliolis lanceolatis.—*Willd. sp. pl.* 3. *p.* 1453. *prolificum.*

H. Kalmianum. *Du Roi harbk.* 1. *p.* 310.

In Virginia. *Gronov.* ♄. June—Aug. *v. v. in Hortis.* The most common and most hardy species in the gardens. I rather suspect its native country to be Canada, as most of the shrubby kinds coming from the southern parts are extremely tender.

7. H. ramis alato-4-gonis, foliis oblongo-lanceolatis obtusiusculis sessilibus, panicula pedunculata dichotoma nudiuscula, floribus solitariis subsessilibus, calycinis laciniis lanceolatis petalis duplo brevioribus, stylis coadunatis staminibus longioribus.—*Mich. fl. amer.* 2. *p.* 78. *nudiflorum.*

H. lævigatum. *Ait. kew.* 3. *p.* 106?

H. ligustrinum. *Herb. Banks. Mss.*

In Carolina. *Michaux.* ♄. July, Aug. *v. v.* Flowers small. Willdenow in the Species Plantarum considers this to be an herbaceous plant, whereas it certainly is a shrub.

glaucum. 8. H. ramis teretibus, foliis oblongis cordatis amplexicaulibus obtusiusculis lævigatis glaucis coriaceis, panicula divaricato-dichotoma foliosa, calycinis foliolis ovatis acutis petalis longioribus, staminibus petalis subæquantibus, stylis coadunatis.—*Mich. fl. amer.* 2. *p.* 78.

H. myrtifolium. *Lam. encycl.* 4. *p.* 180.

In Florida. *Michaux.* ♄. July, Aug. *v. v.* Flowers large.

densiflorum. 9. H. ramosissimum; ramulis subteretibus, foliis lineari-lanceolatis obtusiusculis basi attenuatis, paniculis terminalibus composite-dichotomis subfoliosis densifloris, floribus solitariis pedicellatis, calycinis laciniis brevissimis ovatis deciduis, staminibus stylisque coadunatis petalis brevioribus.

H. rosmarinifolium. *Lam. encycl.* 4. *p.* 159?

On the dry ridges and savannahs of the Virginia mountains. ♄. June, July. *v. v.* About two feet high; flowers middle-sized, in very abundant and close panicles.

galioides. 10. H. ramulis tetragonis, foliis linearibus sessilibus margine revolutis, axillis fasciculato-foliolosis, paniculis terminalibus divaricato-dichotomis, petalis staminibus æquantibus calyce lineari vix longioribus, stylis coadunatis subexertis.—*Lam. encycl* 4. *p.* 161.

In sandy moist places, near rivulets: New Jersey to Carolina. ♄. July—Sept. *v. v.* About two feet high; flowers the size of No. 9.

aspalathoides. 11. H. ramis subteretibus dichotomis, foliis fasciculatis linearibus acutis striatis, floribus solitariis axillaribus subsessilibus. staminibus petalis brevioribus, stylis coadunatis.—*Willd. sp. pl.* 3. *p.* 1451.

H. fasciculatum. *Lam. encycl.* 4. *p.* 160.

In Carolina. *Fraser.* ♄. +. Flowers of middle size.

fasciculatum. 12. H. ramulis teretibus, foliis quasi verticillatim-fasciculatis lineari-lanceolatis acutis basi attenuatis petiolatis margine revolutis, pedunculis in apice ramorum axillaribus trifloris, flore medio sessili, calycibus foliiformibus, stylis coadunatis.—*Willd. sp. pl.* 3. *p.* 1452. *excl. syn. Michaux.*

H. axillare. *Lam. encycl.* 4. *p.* 161.
H. Coris. *Walt. fl. car.* 190.
In pine woods of Georgia and Florida. ♄. July. *v. v.* Flowers the size of *H. perforatum.*

13. H. ramulis angulosis, foliis confertis quasi verticillatim fasciculatis filiformi-linearibus convexis obtusis sessilibus, pedunculis in apice ramulorum axillaribus 1—3-floris, calycibus foliiformibus, stylis coadunatis. *tenuifolium.*
H. fasciculatum. *Mich. fl. amer.* 1. *p.* 80.
In Georgia. *Enslen. v. s. in Herb. Enslen.* Resembles the foregoing species in many respects.

*** *Trigynæ. Herbaceæ.*

14. H. erectum, ramosum; caule ancipiti, foliis oblongis obtusis pellucido-punctatis, panicula terminali brachiato-foliosa, petalis calyce acuto lanceolato duplo longioribus.—*Willd. sp. pl.* 3. *p.* 1460. *perforatum.*
H. virginicum. *Walt. fl. car.* 189.
Icon. *Fl. dan.* 1043. *Engl. bot.* 295.
In old fields, meadows, and on dry hills; common. ♃. June—Aug. *v. v.* Common *St. John's Wort* has probably been introduced from Europe, but become one of the most pernicious weeds, and is considered very injurious to horses; for, when they feed upon it, blindness and other diseases are said to be the consequence.

15. H. erectum, glabrum, nigro-punctatum; caule tereti ramoso, foliis amplexicaulibus oblongo-ovalibus obtusis, corymbis terminalibus brachiatis densifloris, calycinis laciniis lanceolatis acutis.—*Willd. sp. pl.* 3. *p.* 1457. *corymbosum.*
H. maculatum. *Walt. fl. car.* 189.
H. punctatum. *Lam. encycl.* 4. *p.* 164.
In shady woods: New England to Carolina; particularly in the range of the mountains. ♃. June—Aug. *v. v.* Flowers pale yellow, smaller than the foregoing one.

16. H. erectum, ramosissimum, glabrum; caule subtetragono, foliis ovato-oblongis subcordatis obtusis nervosis sessilibus, paniculis terminalibus dichotomo-corymbosis, petalis calyce lanceolato brevioribus.—*Willd. sp. pl.* 3. *p.* 1456. *parviflorum.*
H. quinquenervium. *Walt. fl. car.* 190.
H. mutilum. *Willd. sp. pl.* 3. *p.* 1471.
In overflowed places: Canada to Carolina. ♃. June—Sept. *v. v.* Flowers small; size very variable.

triplinerve. 17. H. erectum, subramosum; caule subancipiti, foliis linearibus patentissimis triplinerviis, floribus racemoso-paniculatis, corolla inæquali, calycibus acutis petalisque serrato-glandulosis.—*Vent. hort. cels* 58.

On the banks of the Ohio. *Michaux.* ♃. July, Aug. +. Flowers the size of *H. perforatum*, pale yellow.

dolabriforme. 18. H. erectum, ramosum; caule ancipiti, foliis lineari-lanceolatis patentibus obtusis, corymbo terminali dichotomo, calycibus inæqualibus lanceolatis, petalis dolabriformibus.—*Vent. hort. cels* 45.

On dry hills of Kentucky. *Michaux.* ♃. June, July. +. Flowers golden yellow.

angulosum. 19. H. erectum; caule tetragono, foliis oblongis acutis arcte sessilibus, panicula terminali dichotoma, ramis divaricatis distanter alternifloris, calycibus subcampanulatis, laciniis lanceolatis acutis inferne carinatis longitudine fere corollæ, petalis dente unico laterali.—*Willd. sp. pl.* 3. *p.* 1454? *Mich. fl. amer.* 2. *p.* 78.

H. denticulatum. *Walt. fl. car.* 190.

In bogs and cedar-swamps: New Jersey and Carolina. ♃. June, July. *v. v.* About a foot high; flowers of a beautiful copper colour, of considerable size.

sphærocarpum. 20. H. erectum, glaberrimum; foliis oblongis, panicula nuda dichotoma, dichotomis omnibus unifloris, stylis coadunatis, capsula globosa.—*Mich. fl. amer.* 2. *p.* 78.

In Kentucky. *Michaux.* ♃. +.

canadense. 21. H. erectum, pusillum, parviflorum; caule tetragono superne dichotomo, foliis sessilibus linearibus basi attenuatis, paniculæ ramis primariis oppositis, secundariis dichotomis, capsulis longis conoideis coloratis.—*Willd. sp. pl.* 3. *p.* 1455.

In low gravelly soil; Canada to Carolina. ⊙. June—Aug. *v. v.* Flowers very small; capsules red.

Sarothra. 22. H. pusillum, erectum, setaceo-ramosissimum; quasi aphyllum; foliis minutis appressis, floribus in ramulis solitarie alternis 5—10-andris, capsulis oblongis 1-locularibus.—*Mich. fl. amer.* 2. *p.* 79.

H. nudicaule. *Walt. fl. car.* 190.

Sarothra gentianoides. *Willd. sp. pl.* 1. *p.* 1515.

Icon. *Pluk. mant. t.* 342. *f.* 2.

In dry sandy situations: New England to Carolina. ⊙. June—Aug. *v. v.* A singular little species; flowers very small; the number of stamina is very variable, according to soil and situation.

23. H. erectum, simplicissimum, lanulosum; caule tereti, foliis oblongis adpressis, floribus paucis terminalibus. —*Mich. fl. amer.* 2. *p.* 80. *simplex.*
H. pilosum. *Walt. fl. car.* 190.
H. ferrugineum. *Herb. Banks. mss.*
Ascyrum villosum. *Willd. sp. pl.* 3. *p.* 1474.
Icon. *Pluk. alm. t.* 245. *f.* 6.
In Lower Carolina and Georgia. ☉. July, Aug. *v. s.*

24. H. procumbens, glaberrimum; ramis ancipitibus summitate paucifloris, foliis linearibus enerviis patulis, calycinis foliolis oblongo-lanceolatis acutis, staminibus corolla brevioribus, stylis coadunatis.—*Mich. fl. amer.* 2. *p.* 81. *Willd. sp. pl.* 3. *p.* 1450? *procumbens.*
On dry sunny hills of Kentucky. *Michaux.* +. The calyx is as large as the corolla.

450. ELODEA. *Adanson.*

Hyperici *sp. Linn.*

1. E. foliis sessilibus amplexicaulibus cordato-oblongis obtusissimis, fasciculis pedunculatis paucifloris axillaribus et terminalibus, corollis subcampanulatis, staminibus 9—12. levissime basi coalitis. *campanulata.*
Hypericum virginicum. *Willd. sp. pl.* 3. *p.* 1455.
Hypericum campanulatum. *Walt. fl. car.* 191.
Icon. *Bot. rep.* 552.
β. E. foliis cordato-ovatis emarginatis, pedunculis axillaribus elongatis. emarginata.
Hypericum emarginatum. *Lam. encycl.* 4. *p* 154.
In bogs and wet meadows: Canada to Carolina. ♃. July—Sept. *v v.* β. *v. s. in Herb. Lambert.* Flowers yellowish-red, very handsome.

2. E. foliis sessilibus, corollis tubulosis, staminibus plusquam ad medium connatis. *tubulosa.*
Hypericum tubulosum. *Walt. fl. car.* 191.
In Carolina. *Walter.* +. I observed in the vicinity of the Dismal-swamp in North Carolina, a species belonging to this genus, of which I have no specimen in my Herbarium, and which probably may be the species alluded to by Walter. The leaves are elliptic and acute; the flowers nearly sessile in the axils of the leaves, solitary or by two or three; the petals are long and acute, pale red; capsules long, prismatic.

3. E. foliis petiolatis oblongo-ovalibus rotundato-obtusis, *petiolata.*

floribus oppositis axillaribus subsessilibus subternis, staminibus ad medium usque connatis, capsulis oblongis.
Hypericum petiolatum. *Walt. fl. car.* 191.
Hypericum axillare. *Mich. fl. amer.* 2. *p.* 81.
On banks of lakes and rotten wood: Virginia and Carolina. ♃. July, Aug. *v. v.*

III. *POLYGYNIA.*

451. ILLICIUM. *Gen. pl.* 940.

floridanum. 1. I. foliis acuminatis, petalis numerosis oblongis linearibusque.—*Willd. sp. pl.* 2. *p.* 1254.
Icon. *Bot. mag.* 439.
On the banks of the Mississippi, in West Florida. ♄. May, June. *v. v.* Flowers dark purple, large; leaves of a very aromatic anise-scent, when bruised.

parviflorum. 2. I. foliis obtusis, petalis sex calyceque rotundatis concavis. —*Mich. fl. amer.* 1. *p.* 326.
I. anisatum. *Bartr. trav.* 24.
Icon. *Vent. hort. cels* 22.
In East Florida, on the banks of the river St. John. *Michaux.* ♄. May, June. *v. v. in Hortis.* Flowers small, yellow.

452. MAGNOLIA. *Gen. pl.* 942.

grandiflora. 1. M. foliis perennantibus ovalibus crassis coriaceis, petalis dilatato-obovatis abrupte in unguem angustatis.—*Willd. sp. pl.* 2. *p.* 1255.
elliptica. α. M. foliis oblongo-ellipticis subtus ferrugineis, floribus subcontractis. *Ait. kew.* 2. *p.* 251.
Icon. *Bot. rep.* 518. *Trew ehret.* 33.
obovata. β. M. foliis obovato-oblongis, floribus expansis. *Ait. l. c.*
lanceolata. γ M. foliis oblongo-lanceolatis apice flexis concoloribus, floribus subcontractis. *Ait. l. c.*
Icon. *Mill. ic.* 172. *Catesb. car.* 61. *Mich. arb. t.* 1.
In the forests of South Carolina and Georgia, reaching west to the Mississippi. ♄. May—Aug. *v. v.* This stately tree, with its elegant foliage and large white flowers, is the prince of the forests of North America. The varieties here mentioned might easily be considered as good species, if there were not so many intermediate ones, which connect them too closely to-

gether. In Carolina it is known by the name of *Big Laurel.*

2\. M. foliis ovalibus subtus glaucis, petalis obovatis basi attenuatis.—*Willd. sp. pl.* 2. *p.* 1256. *glauca.*

α. M. foliis deciduis ovali-oblongis obtusiusculis.—*Ait. kew.* 2. *p.* 251. latifolia.

Icon. *Dill. elth. t.* 168. *f.* 205. *Catesb. car.* 1. *t.* 39. *Trew ehret.* 9. *Mich. arb. t.* 2.

β. M. foliis perennantibus ellipticis utrinque acutis.—*Ait. l. c.* longifolia.

In swamps covered with wood: New Jersey to Carolina. β. Georgia and Florida. ♄. May—July. *v. v.* A small tree; flowers white, very fragrant. The variety β. is a taller tree, the branches more upright, and the leaves narrow and long; it might with propriety be considered a distinct species. This species is known by the names of *Swamp Sassafras, Sweet Bay, Swamp Laurel,* and *Beaver-wood.*

3\. M. ramis medullosis fragilibus, foliis amplisissimis oblonge subcuneato-obovalibus basi sinuata subauriculatis subtus glaucis, petalis 6. ovatis obtusis.—*Mich. fl. amer.* 1. *p.* 327. *macrophylla.*

Icon. *Mich. arb. t.* 7.

In the deep forests of Tennassee. ♄. May—July. *v. v. s. fl.* This stately small tree, with its extremely large leaves and white flowers, tinged at the bottom with red, which are larger than *M. grandiflora,* is one of the most ornamental trees America produces.

4\. M. foliis amplis oblonge subcuneato-obovalibus acutis, junioribus holosericeis, petalis 9. ellipticis acutis, exterioribus reflexis.—*Willd. sp. pl.* 2. *p.* 1258. *tripetala.*

M. umbrella. *Lam. encycl.* 3. *p.* 644.

Icon. *Catesb. car.* 2. *t.* 80. *Mich. arb. t.* 5.

In the mountains of Virginia and Carolina. ♄. June, July. *v. v.* Leaves large; flowers white, the size of *M. grandiflora,* and very fragrant. It is generally known by the name of *Umbrella-tree;* in the mountains they call it *Elk-wood.*

5\. M. foliis ovalibus acuminatis subtus pubescentibus, petalis obovatis obtusiusculis.—*Willd. sp. pl.* 2. *p.* 1257. *acuminata.*

Icon. *Catesb. car.* 3. *t.* 15. *Mich. arb. t.* 3.

In high mountain-valleys, in fertile soil: Pensylvania to Carolina. ♄. June, July. *v. v.* Flowers a dim yellow mixed with a faint blue, not much larger than those

of *M. glauca.* It is generally known by the name of *Cucumber-tree*, and its fruits are used as a wholesome bitter among the inhabitants.

cordata. 6. M. foliis cordatis subtus subtomentosis, petalis lanceolato-oblongis acutis.—*Mich. fl. amer.* 1. *p.* 328.
Icon. *Mich arb. t.* 4.
On dry ridges of mountains in Upper Carolina and Georgia. ♄. *v. v. s. fl.* Flowers yellow.

auriculata. 7. M. foliis amplis obovato-lanceolatis acutis subtus glaucis basi cordatis auriculatis, lobis approximatis, petalis ovatis acutis sub-unguiculatis.—*Willd. sp. pl.* 2. *p.* 1258.
M. auricularis. *Parad. lond.* 43.
M. Fraseri. *Walt. fl. car.* 159.
Icon. *Bot. mag.* 1206. *Bot. rep.* 573. *Mich. arb. t.* 6.
In the Allegany mountains, from the head-waters of the Susquehanna to Carolina. ♄. April, May. *v. v.* A beautiful tree; flowers yellowish white, large. The bark of this and some of the foregoing species is esteemed a valuable medicine, particularly in intermitting fevers; from which circumstance it is known in some places by the name of *Indian Physic.*

pyramidata. 8. M. foliis rhomboideo-obovalibus abrupte acutis concoloribus basi subcordatis auriculatis, lobis divaricatis, petalis lanceolatis sensim acutis.—*Bartr. trav. p.....*
M. auriculata. *Mich. fl. amer.* 1. *p* 328.
In the western parts of Carolina and Georgia. ♄. April, May. *v. v.* This species has generally been confounded with the foregoing one, from which it not only differs in the distinctions given above, but in general habit: the tree is of a more upright pyramidal growth, and the leaves not one fourth the size of *M. auriculata.*

453. LIRIODENDRON *Gen. pl.* 941.

tulipifera. 1. L. foliis abscisso-truncatis 4-lobatis, calyce triphyllo.—*Willd. sp. pl.* 2. *p.* 1254.

acutiloba. α. L. lobis acutis acuminatisque. *Mich. fl. amer.* 1. *p.* 326.
Icon. *Bot. mag.* 275. *Schmidt arb.* 48. *Catesb. car.* 1. *t.* 48. *Mich. arb. t. ....*

obtusiloba. β. L. lobis rotundato-obtusissimis. *Mich. l. c.*
In fertile ground: Canada to Florida. β. in Pensylvania. ♄. June, July. *v. v.* A highly ornamental and use-

ful timber tree; flowers yellow and red, mixed with green. Generally known by the name of *Tulip-tree,* or *White* and *Yellow Poplar.*

454. PORCELIA. *Prodr. fl. peruv. p.* 84.

Orchidocarpum. *Mich. fl. amer.* 1. *p.* 329.

1. P. foliis glabriusculis oblonge cuneato-obovatis, petalis exterioribus orbiculatis, fructibus magnis carnosis.—*Pers. syn.* 2. *p.* 95. *triloba.*
Anona triloba. *Willd. sp. pl.* 2. *p.* 1267.
Orchidocarpum arietinum. *Mich. fl. amer.* 1. *p.* 329.
Icon. *Catesb. car.* 2. *t.* 83. *Trew ehret.* 5. *Duham. arb.* 1. *t.* 19.
On the overflowed banks of rivers: Pensylvania to Florida. ♄. March, April. *v. v.* A small tree; flowers dark brown; fruits large, eatable.

2. P. foliis cuneato-obovatis basi acutis ramulisque rufo-pubescentibus, petalis omnibus ovalibus, fructibus ovatis subcarnosis.—*Pers. syn.* 2. *p.* 95. *parviflora.*
Orchidocarpum parviflorum. *Mich. fl. amer.* 1. *p.* 329.
In shady woods, near rivers and lakes: Virginia to Georgia. ♄. April, May. *v. v.* A low shrub, sometimes not above two feet high, when in full fruit; flowers small, dark purple.

3. P. foliis elongato-lanceolatis cuneatisve lævigatis, petalis exterioribus majoribus obovato-oblongis, interioribus longioribus.—*Pers. syn.* 2. *p.* 95. *pygmæa.*
Orchidocarpum pygmæum. *Mich. fl. amer.* 1. *p.* 330.
Anona pygmæa. *Willd. sp. pl.* 2. *p.* 1268.
Icon. *Bartr. trav. t.* 1.
In sandy fields: Georgia and Florida. ♄. *v. v.* Flowers the size of *Anona squamosa;* the whole shrub not above a foot high.

4. P. foliis cuneato-obovalibus basi obtusis ramulisque rufo-pubescentibus, petalis exterioribus majoribus obovatis, interioribus oblongis.—*Pers. syn.* 2. *p.* 95. *grandiflora.*
Orchidocarpum grandiflorum. *Mich. fl. amer.* 1. *p.* 330.
Anona obovata. *Willd. sp. pl.* 2. *p.* 1269.
Icon. *Bartr. trav. t.* 2.
In sandy woods, in shady places: Georgia and Florida. ♄. May. *v. s.* A small shrub: flowers very large in proportion, white.

455. ATRAGENE. *Gen. pl.* 949. *Sims in bot. mag.* 887.

americana. 1. A. foliis quaternis ternatis, foliolis cordatis subintegerrimis, nectariis acutis. *Sims l. c.* cum icone.

In shady places, on the side of rivulets, climbing and creeping among loose rocks: New York and Pensylvania, near the foot of the Blue-mountains. ♄. May, June. *v. v.* Flowers large, purple.

456. CLEMATIS. *Gen. pl.* 960.

virginica. 1. C. scandens; foliis ternatis, foliolis ovatis subcordatis inciso-dentatis lobatisque, corymbis dichotomis paucifloris, petalis staminibus longioribus, floribus dioicis. —*Willd. sp. pl.* 2. *p.* 1290.

In hedge-rows and among small shrubberies on the side of woods: Canada to Florida. ♄. June—Aug. *v. v.* Flowers small, white, and fragrant.

cordata. 2. C. scandens; foliis pinnatis bijugis, foliolis cordatis lobatis acuminatis inciso-dentatis, dentibus mucronatis, racemis compositis elongatis multifloris, staminibus petalis subæquantibus, floribus dioicis.

On high mountains: Virginia. ♄. July. *v. v.* Flowers resembling the former species. In general appearance it approaches near to *C. Vitalba.*

holosericea. 3. C. scandens, tota holosericeo-pubescens; foliis ternatis oblongo-lanceolatis integris utrinque pubescentibus, corymbis trichotomis paucifloris, petalis linearibus staminibus longioribus, floribus dioicis.

In Carolina. ♄. *v. s. in Herb. Walter.* The flowers small, white; tails of the seeds very long, feathered.

Walteri. 4. C. scandens; foliis pinnatis cirrhosis trijugis, foliolis divaricatis petiolatis lineari-lanceolatis acutis integerrimis subtus glaucis, floribus solitariis, petalis ellipticis staminibus duplo longioribus.

In Carolina. ♄. *v. s. in Herb. Walter.* Flowers white.

crispa. 5. C. scandens; foliis pinnatis ternatisque, foliolis divaricatis ovato-lanceolatis acutis trilobisve integerrimis, floribus solitariis, corollis campanulatis acuminatis revolutis margine undulatis, aristis seminum subulatis nudis.—*Willd. sp. pl.* 2. *p.* 1289.

Icon. *Dill. elth. t.* 73. *f.* 84.

In hedges and among bushes on the side of rivers: Vir-

ginia and Carolina. ♄. July, Aug. *v. v.* Flowers large, purple.

6. C. scandens; foliis pinnatis, foliolis ovatis utrinque acutis glabris simplicibus pedicellatis, pedunculis terminalibus solitariis, corollis cernuis cylindricis, petalis subcoriaceis undulatis conniventibus, aristis seminum plumosis.—*Sims in bot. mag.* 1160. *cylindrica.*

C. Viorna. *Bot. rep.* 71.

In Virginia and Carolina. ♄. June—Aug. *v. v.* Flowers large, of a fine pale purplish blue.

7. C. scandens; foliis pinnatis 4-jugis, foliolis ovatis utrinque obtusis omnibus integris petiolatisque membranaceis utrinque reticulato-venosis, floribus solitariis, petalis subcoriaceis, aristis seminum plumosis.—*Walt. fl. car.* 156. *Mich. fl. amer.* 1. *p.* 318. *reticulata.*

C. rosea. *Abbot insect. t.* ....

In Georgia and Carolina. ♄. June, July. *v. s. in Herb. Walter.* Flowers resembling the following species, pale purplish-red.

8. C. scandens; foliis divaricato-compositis decompositisque, foliolis ovali-lanceolatis utrinque acutis trifidisque integerrimis, floribus solitariis campanulatis, petalis crassis acuminatis.—*Willd. sp. pl.* 2. *p.* 1288. *Viorna.*

Icon. *Bot. rep.* 71. *Dill. elth. t.* 118. *f.* 144.

In hedges and copses: Virginia and Carolina. ♄. June—Aug. *v. v.* Flowers dark blue, large.

9. C. erecta, simplex; foliis hirsutissimis bipinnatifidis incisis, laciniis linearibus acutis, caulinis compositemultifidis, pedunculo terminali solitario, flore erecto campanulato, petalis 4. erectis ovatis obtusiusculis apice reflexis. *hirsutissima.*

On the plains of Columbia river. ♃. May. *v. s. in Herb. Lewis.* The whole plant is covered with a close coat of long hairs like *Anemone Pulsatilla*, which it very much resembles in several respects. I consider all the division of *Anemones* with caudated seeds to belong to this genus, or at least to one separate from *Anemone.*

10. C. erecta, simplex, pubescens; foliis simplicibus ovalibus integerrimis, junioribus calycibusque extus incano-sericeis, pedunculo terminali solitario, flore cernuo.—*Mich. fl. amer.* 1. *p.* 319. *sericea.*

C. ochroleuca. *Willd. sp. pl.* 2. *p.* 1294.

Icon. *Bot. mag.* 1175.

On the banks of rivers: Pensylvania and Virginia; rare. ♃. May—July. *v. v.* About a foot high; flowers inside yellow.

457. ANEMONE. *Gen. pl.* 948.

nemorosa. 1. A. caule unifloro, foliis caulinis ternis ternatis, foliolis cuneatis inciso-lobatis dentatis acutis, corollis 5–6-petalis, seminibus ovatis stylo brevi uncinatis.—*Willd. sp. pl.* 2. *p.* 1281.

Icon. *Fl. dan.* 549. *Engl. bot.* 355.

quinquefolia. β. A. foliis lateralibus profunde bipartitis. *Willd. sp. pl.* 2. *p.* 1281.

Icon. *Pluk. alm. t.* 106. *f.* 3.

In shady woods, round the roots of trees: Canada to Carolina. ♃. March, April. *v. v.* Flowers white, with a tinge of red on the under side; sometimes nearly double. Var. β. can never be considered as a species, as there are intermediate varieties between it and the original species.

lancifolia. 2. A. caule unifloro, foliis caulinis ternis ternatis, foliolis lanceolatis crenato-dentatis, corollis 5-petalis, seminibus ovatis stylo brevi uncinatis.

A. trifolia. *Willd. sp. pl.* 2. *p.* 1281?

On high mountains, in boggy soil: Pensylvania and Virginia. ♃. May—July. *v. v.* Resembles the foregoing species; flowers larger, and clear white.

cuneifolia. 3. A. caule unifloro involucrato, foliis ternatis, foliolis sessilibus cuneatis apice truncato-crenatis, involucro 3-phyllo, corollis 5-petalis, seminibus capitato-globosis lanatis acuminatis.—*Juss. in annal. du mus.* 3. *p.* 248. *t.* 21. *f.* 1.

A. parviflora. *Mich. fl. amer.* 1. *p.* 319.

A. tenella. *Herb. Banks.*

On the banks of rivulets, near Hudson's Bay and Labrador. ♃. March—May. *v. s. in Herb. Dickson.* Flowers white, the size of No. 1.

tenella. 4. A. caule unifloro involucrato, foliis subbiternatis, foliolis 3-fidis seu 3-dentatis acutis involucro 3-partito, laciniis incisis, petalis 12—15-linearibus, seminibus lanatis mucronatis, radice tuberosa.

A. caroliniana. *Walt. fl. car.* 157.

On the banks of the Missouri. *M. Lewis.* In Carolina. *Walter.* ♃. May. *v. s. in Herb. Lewis* Flowers

purple, small; the whole plant very slender and delicate; roots tuberous.

5. A. caule unifloro nudo, foliis palmatis longius petiolatis, corolla 5-petala, radice tuberosa. *Walteri.*

Thalictrum carolinianum. *Walt. fl. car.* 157.

In Carolina. *Walter.* ♃. +. I was not able to find any information respecting this plant in the Walterian Herbarium, but consider it to belong rather to this genus than to *Thalictrum.*

6. A. floribus umbellatis involucratis, foliis radicalibus biternatis, foliolis subcordatis 3-dentatis, involucro 6-phyllo, foliolis petiolatis conformibus, umbella pauciflora, seminibus nudis striatis, radice tuberosa.—*Willd. sp. pl.* 2. *p.* 1284. *thalictroides.*

Thalictrum anemonoides. *Mich. fl. amer.* 1. *p.* 322.

Icon. *Bot. mag.* 866. *Annales du mus.* 3. *t.* 21. *f.* 2. *a.* & *b.* *Pluk. alm. t.* 106. *f.* 4. *Willd. hort. berol.* 44.

β. A. involucro unifloro. *Gronov. virg.* uniflora.

In woods, frequent: Canada to Carolina. ♃. March—May. *v. v.* Flowers white. A beautiful double variety is cultivated in the gardens, which in delicacy of figure and colour exceeds any other species of this elegant genus.

7. A. floribus umbellatis involucratis, foliis radicalibus multifido-palmatis incisis, laciniis linearibus, involucris sessilibus incisis, umbella pauciflora, pedicellis involucro longioribus.—*Willd. sp. pl.* 2. *p.* 1283. *narcissiflora.*

In Canada and on the north-west coast. ♃. April, May. *v. s.* Flowers white.

8. A. caule dichotomo, foliis radicalibus palmatis, caulinis sessilibus amplexicaulibus 3-fidis: infimis ternatis: lobis acute lanceolatis inciso-serratis, pedunculis solitariis unifloris, seminibus capitulo globoso nudis subulato-rostellatis.—*Willd. sp. pl.* 2. *p.* 1280. *pensylvanica.*

A. aconitifolia. *Mich. fl. amer.* 1. *p.* 320.

In meadows and on the borders of woods: Canada to Pensylvania. ♃. June, July. *v. v.* Flowers large, white; anthers yellow.

9. A. caule dichotomo, foliis caulinis omnibus oppositis amplexicaulibus trifidis, lobis cuneato-lanceolatis superne inciso-serratis, pedunculis solitariis unifloris, seminibus capitulo globoso nudis recurvato-mucronatis. *Willd. sp. pl.* 2. *p.* 1280. *dichotoma.*

A. irregularis. *Lam. encycl.* 1. *p.* 167.

Icon. *Linn. fil. dec.* 2. *t.* 15.

In wet woods and natural meadows: Canada and the western parts of New York. ♃. May, June. *v. v.* Flowers white, with a tinge of red on the under side, smaller than the foregoing species.

virginiana. 10. A. caule dichotomo, foliis ternis ternatis, superioribus oppositis, foliolis inciso-lobatis serratisque acutis, pedunculis solitariis unifloris elongatis, seminibus capitulo oblongo lanatis mucronatis.—*Willd. sp. pl.* 2. *p.* 1279.

Icon. *Herm. parad. t.* 18.

In woods, on the side of dry sandy hills: Canada to Carolina. ♃. May, June. *v. v.* Flowers small, greenish-yellow.

458. THALICTRUM. *Gen. pl.* 951.

Cornuti. 1. T. foliis supradecompositis, foliolis ovatis trifidis, paniculis terminalibus.—*Willd. sp. pl.* 2. *p.* 1296.

Icon. *Corn. canad.* 186.

On the banks of rivers and in wet meadows: Canada to New England. ♃. June, July. *v. v.* From two to three feet high; flowers small and greenish-yellow.

dioicum. 2. T. lævigatum; foliis supradecompositis, foliolis subrotundis cordatis obtuse-lobatis subtus glaucis lævibus, paniculis axillaribus filiformibus folio brevioribus, floribus parvis in umbellis paucifloris.—*Willd. sp. pl.* 2. *p.* 1296.

T. lævigatum. *Mich. fl. amer.* 1. *p.* 322.

In shady woods and on the banks of rivers: Canada to Virginia. ♃. May—July. *v. v.* Not above a foot high; flowers white.

rugosum. 3. T. caule striato, foliis supradecompositis, foliolis ovatis lanceolatisque rugosis venosis obtuse-lobatis, paniculis amplis terminalibus.—*Willd. sp. pl.* 2. *p.* 1298.

On the banks of rivers and in swamps: Pensylvania to Carolina. ♃. June—Aug. *v. v.* Very tall, sometimes above five feet high; flowers white.

pubescens. 4. T. tenui tomento pubescens; foliis supradecompositis, foliolis ovatis subcordatis cuneatisque apice 3-lobis, supra subrugosis, subtus subtomentosis, paniculis terminalibus, pedicellis subumbellatis divaricatis, floribus polygamis.

T. polygamum. *Muhlb. mss.*

On the banks of ditches and rivulets: Pensylvania and Virginia. ♃. June—Aug. *v. v.* A tall species; flowers white.

5. T. caule foliis duplo altiore, foliis compositis, foliolis subrotundis 3-fidis incisis, paniculis nudiusculis, floribus cernuis, staminibus coloratis.—*Willd. sp. pl.* 2. *p.* 1299. *purpurascens.*

On dry sunny hills: Pensylvania and Virginia. ♃. May, June. *v. v.* A small plant; stem and filaments purple.

6. T. foliis simplicibus 5-lobis serratis, floribus corymbosis.—*Willd. enum.* 585. *ranunculinum.*

In Carolina. *Willdenow.* ♃. +. Flowers resembling those of *T. speciosum.*

459. HYDRASTIS. *Gen. pl.* 958.

1. H. caule superne opposite diphyllo, foliis petiolatis basi emarginatis palmatis serratis incisis, pedunculo terminali solitario unifloro.—*Willd. sp. pl.* 2. *p.* 1340. *canadensis.*

Icon. *Mill. ic. t.* 285.

In shady woods, on fertile soil and among rocks: Canada to Carolina, principally in the Allegany mountains. ♃. April, May. *v. v.* Flowers pale rose-coloured; berry red. The roots are yellow, and afford a fine dye.

460. BRASENIA. *Gen. pl.* 938.

Hydropeltis. *Mich. fl. amer.* 1. *p.* 323.

1. B. foliis centro peltatis ovalibus integerrimis, pedunculis solitariis unifloris. *peltata.*

Hydropeltis purpurea. *Mich. fl. amer.* 1. *p.* 324. *t.* 29.

Icon. *Bot. mag.* 1147. *Pluk. alm. t.* 349. *f.* 3.

In lakes and slow-flowing waters: New Jersey to Carolina. ♃. June—Aug. *v. v.* Floating on the water; the whole plant has a purple colour; the flowers dark purple, the size of *Caltha*; the petioles and under surface of the leaves are covered with a transparent gelatinous substance.

461. CALTHA. *Gen. pl.* 957.

1. C. caule erecto unifloro unifolio, foliis radicalibus cordato-ovatis obtusissimis paucidentatis multinervibus, petalis ellipticis. *ficarioides.*

Ranunculus Ficaria. *Walt. fl. car.* 159.
In shady cedar-swamps of New Jersey and Carolina. ♃. June, July. *v v.* Flowers deep yellow, the size of *Ranunculus Ficaria.*

integerrima. 2. C. caule erecto corymboso, foliis integerrimis sinu clauso orbiculato-cordatis, floralibus sessilibus reniformibus basi obsolete crenatis, petalis obovalibus.
In wet meadows and small rivulets: New England to Virginia. ♃. May—July. *v. v.* Flowers yellow, smaller than the following species.

palustris. 3. C. caule erecto corymboso, foliis cordato-reniformibus: lobis patulis, circumcirca acute-crenatis, floralibus subsessilibus, petalis ovatis.—*Willd. sp. pl.* 2. *p.* 1338.
Icon *Fl. dan.* 668. *Engl. bot.* 506.
In low boggy meadows: Canada to Pensylvania. ♃. April—June. *v. v.* Flowers golden yellow, large.

flabellifolia. 4. C. caule procumbente, foliis dilatato-reniformibus: lobis patentissimis, circumcirca argute acuteque dentatis, pedunculis axillaribus solitariis unifloris, petalis obovatis, capsulis rostro adunco.
In a large sand-spring on Pokono-mountain, Pensylvania. ♃. July, Aug. *v. v.* Flowers yellow, the size of *Ranunculus arvensis.* This plant has some affinity with *C. natans Willd. sp. pl.* 2. *p.* 1339. of which I have seen perfect specimens in the Herbarium of A. B. Lambert, Esq., collected by Pallas in the most eastern parts of Siberia, under the name of *C. pusilla,* which I distinguish by the following diagnosis: *Caltha natans,* caule procumbente natante, foliis cordato-reniformibus: lobis subapproximatis, postice obsolete crenatis, antice dentatis, petalis ovalibus, capsulis rostro recto. The flowers of that species are white, with a tinge of red, of the same size as the present species.

462. COPTIS. *Salisb. in linn. trans.* 8. *p.* 305.

trifolia. 1. C. foliis ternatis, foliolis rotundato-obovalibus acuminato-crenatis, scapo unifloro.—*Salisb. l. c.*
Helleborus trifolius. *Willd. sp. pl.* 2. *p.* 1338.
Icon. *Fl. dan.* 566.
In cedar-swamps and mountain bogs: Canada to Virginia. ♃. May—July. *v. v.* A delicate small plant; flowers white.

Caltha flabellifolia.

2. C. foliis biternatis, foliolis subpinnatifidis, scapo bifloro. —*Salisb. l. c. p.* 306. *asplenifolia.*
On the north-west coast. *Menzies.* ♃. *v. s. in Herb. Banks.* Flowers larger than the foregoing one.

463. TROLLIUS. *Gen. pl.* 954.

1. T. petalis 5. obtusis patulis, nectariis staminibus brevioribus. *Salisb. in linn. trans.* 8. *p.* 303. *laxus.*
T. americanus. *Donn catal.*
T. pentapetalus. *Herb. Banks.*
In shady wet places, on the mountains of New York and Pensylvania. ♃. May—July. *v. v.* Flowers yellow, the size of *Ranunculus acris.*

464. HEPATICA. *Willd. enum.* ....

1. H. foliis trilobis integerrimis, scapis unifloris.—*Willd. enum.* *triloba.*
Anemone Hepatica. *Willd. sp. pl.* 2. *p.* 1273.
Icon. *Bot. mag.* 10. *Fl. dan.* 610.
α. H. lobis rotundatis obtusis. obtusa.
β. H. lobis ovalibus acutis. acuta.
In woods, on the side of fertile and rocky hills: Canada to Carolina. ♃. March—May. *v. v.* Flowers blue or purple; generally smaller than in the European plant.

465. RANUNCULUS. *Gen. pl.* 953.

* *Foliis simplicibus, integris.*

1. R. glaber, caule declinato, foliis angusto-lanceolatis acutis integerrimis denticulatisque, inferioribus petiolatis, pedunculis terminalibus axillaribus unifloris, calycibus subreflexis.—*Willd. sp. pl.* 2. *p.* 1307. *Flammula.*
Icon. *Fl. dan.* 575. *Engl. bot.* 387.
In inundated places and small rivulets: Pensylvania and Virginia. ♃. July—Sept. *v. v.* Flowers deep yellow, small.

2. R. adpresso-pilosus; foliis lanceolatis subdenticulatis acuminatis subsessilibus, caule erecto multifloro.—*Willd. sp. pl.* 2. *p.* 1308. *Lingua.*
Icon. *Engl. bot.* 100. *Fl. dan.* 755.
On the banks of rivers, among scirpus and other river plants: Pensylvania and Virginia. ♃. July, Aug.

v. v. Resembles the preceding one, but is upright, the flowers larger and in greater abundance.

pusillus. 3. R. glaber; foliis petiolatis inferioribus ovatis dentatis, superioribus lineari-lanceolatis apice dentatis, supremis linearibus bracteiformibus, pedunculis alternis solitariis unifloris.

R. flammula. *Walt. fl. car.* 159. *Mich. fl. amer.* 1. *p.* 321.

♃. June–Aug. *v. s. in Herb. Enslen.* A small species, with exceeding small flowers, petals pale yellow.

filiformis. 4. R. glaber, pusillus; caulibus filiformibus repentibus geniculatis, geniculis unifloris, foliis lineari-subulatis obtusis.—*Mich. fl. amer.* 1. *p.* 320.

In inundated places, on the river St. Laurence, Hudson's Bay, and Labrador. ♃. June, July. *v. s. in Herb. Banks.* Resembles *R. reptans* very much.

Cymbalaria. 5. R. glaber, minimus, filiformis, repens, ad genicula radicans; foliis cordato-reniformibus obtuse 5-dentatis, pedunculis radicalibus solitariis plerumque bifloris, petalis linearibus, fructibus oblongis.

In saline marshes near the salt-works of Onondago, New York. ♃. June, July. *v. v.* Flowers the size of the foregoing one, pale yellow, sometimes white. This little plant has some resemblance to *R. salsuginosus* of Pallas, whose specimens I had an opportunity of seeing in the collection of A. B. Lambert, Esq. and which may be distinguished by the following diagnosis: R. glaber, filiformis, repens, ad genicula radicans; foliis ovatis rariter cordatis apice 3-dentatis, pedunculis radicalibus solitariis plerumque unifloris, petalis obovatis, fructibus subglobosis. The flowers are more than ten times larger than in *R. Cymbalaria.*

** *Foliis dissectis et divisis.*

abortivus. 6. R. glaber; caulibus striatis inferne nudis, foliis radicalibus cordato-reniformibus obtuse-crenatis, caulinis petiolatis ternatis angulatis, superioribus sessilibus, ramulis subtrifloris.—*Willd. sp. pl.* 2. *p.* 1314.

In wet places on the side of ponds and ditches: New York to Carolina. ♃. July, Aug. *v. v.* Flowers small, yellow.

nitidus. 7. R. glaberrimus; caulibus fistulosis, foliis radicalibus rotundato-subreniformibus obtuse-crenatis, caulinis ses-

silibus digitatis, foliolis incisis, laciniis obtusis, seminibus subglobosis glaberrimis.—*Walt. fl. car.* 159. *Lam. encycl.* 6. *p.* 126.

In inundated grounds: New York to Carolina. ♃. July, Aug. *v. v.* Flowers small; petals white. This and the foregoing one are nearly related to each other, and probably only varieties of the same species, though distinguished by Walter and Lamarck.

8. R. glaber; foliis inferioribus palmatis, superioribus sessilibus digitatis, fructibus oblongis.—*Willd. sp. pl.* 2. *p.* 1315. *sceleratus.*

Icon. *Fl. dan.* 571. *Engl. bot.* 681.

In ponds and ditches: Canada to Virginia. ♃. June—Aug. *v. v.* Flowers yellow, small.

9. R. pubescens; foliis radicalibus reniformibus tripartitis inciso-crenatis, caulinis sessilibus digitatis linearibus, caule multifloro, calyce colorato patente.—*Willd. sp. pl.* 2. *p.* 1314. *auricomus.*

Icon. *Fl. dan.* 665. *Engl. bot.* 624.

In old meadows and woods: Pensylvania. ♃. May, June. *v. v.* Flowers yellow, middle-sized.

10. R. pusillus, glaber; foliis radicalibus subcordato-reniformibus inciso-dentatis, caulinis sessilibus digitatis, laciniis linearibus integerrimis, caule paucifloro, petalis oblongis calyce subæquantibus. *pygmæus.*

In Labrador. *Colmaster.* ♃. May, June. *v. s. in Herb. Dickson.* Flowers small, yellow; it approaches very near to *R. nivalis.*

11. R. pilosus, erectus, ramosus; foliis ternatis trifidis incisis subtus pilosis, pedunculis teretibus, calycibus reflexis, petalis calyce subæquantibus.—*Willd. sp. pl.* 2. *p.* 1323. *pensylvanicus.*

R. canadensis. *Jacq. ic. rar.* 1. *t.* 105.

In low meadows: Canada to Pensylvania; rare. ♃. July, Aug. *v. v.* Flowers the size of *R. acris.*

12. R. hirsutissimus; foliis compositis: ternatis trifidis incisis dentatisque, caule erecto multifloro, pedunculis sulcatis, calycibus retroflexis, radice bulbosa.—*Willd. sp. pl.* 2. *p.* 1324. *bulbosus.*

Icon. *Fl. dan.* 551. *Engl. bot.* 515.

In meadows and grass plots, common. ♃. May—Aug. *v. v.*

13. R. hirsutus; foliis ternatis inciso-lobatis, caule erecto *Philonotis.*

multifloro, pedunculis sulcatis, calycibus retroflexis acuminatis, seminibus tuberculatis, radice fibrosa.—*Willd. sp. pl.* 2. *p.* 1324.

R. hirsutus. *Curt. lond.* 2. *t.* 40. *Engl. bot.* 1504.

In old meadows and low wet fields: New England to Pensylvania. ♃. June—Oct. *v. v.* Resembles the foregoing one.

repens. 14. R. hirsutus; foliis compositis: ternatis trifidis incisis, sarmentis repentibus, pedunculis sulcatis, calycibus patulis. *Willd. sp. pl.* 2. *p.* 1325.

Icon. *Fl. dan.* 795. *Engl. bot.* 516.

In shady wet woods, particularly in the mountains: Pensylvania to Virginia. ♃. July, Aug. *v. v.* Flowers deep yellow.

acris. 15. R. adpresso-pilosus; foliis tripartito-multifidis, summis linearibus, pedunculis teretibus, calycibus patulis.—*Willd. sp. pl.* 2. *p.* 1326.

Icon. *Engl. bot.* 652.

In wet meadows, in the western parts of New York and Canada. ♃. May—Aug. *v. v.*

lanuginosus. 16. R. hirsutus; foliis trifidis lobatis dentatis holosericeis, pedunculis elongatis teretibus, calycibus patulis.—*Willd. sp. pl.* 2. *p.* 1327.

Icon. *Fl. dan.* 397.

In old fields and meadows: Pensylvania to Carolina. ♃. June—Oct. *v. v.*

tomentosus. 17. R. villosissimus, humilis; caule repente 1–2-floro, foliis tomentosis trilobatis, calycibus hispidis subreflexis.—*Lam. encycl.* 6. *p.* 127.

In Carolina. *Bosc.* ♃. +. Flowers yellowish-white.

marylandicus. 18. R. pubescens; caule simplici subnudo, foliis radicalibus ternatis, foliolis trilobatis, lobis acutis incisis, calycibus reflexis. *Lam. encycl.* 6. *p.* 126.

In shady woods: Pensylvania to Virginia. ♃. May—July. *v. v.* Flowers pale yellow.

recurvatus. 19. R. pubescens; foliis trilobis, lobis basi cuneiformibus, apice incisis acutis, caule multifloro, corolla calycibusque recurvis, petalis linearibus.—*Lam. encycl.* 6. *p.* 125.

In shady woods: New York to Carolina. ♃. June—Aug. *v. v.* Flowers small; petals almost white.

septentrionalis. 20. R. glabriusculus; foliis membranaceis glabris ternatis, foliolis subtrilobatis incisis acutis, caule petiolisque

basi hirsutis, pedunculis subbifloris, calycibus reflexis. *Lam. encycl.* 6. *p.* 125.

In North America. *Lamarck.* ♃. +. Flowers pale yellow.

21. R. hirsutissimus, erectus; foliis ternatis, foliolis acute lobatis, caulibus infra primum pedunculum nudis paucifloris, calyce appresso. *Mich. fl. amer.* 1. *p.* 321. *hispidus.*

In wet fields and on the banks of ditches: Virginia and Carolina. ♃. June—Aug. *v. v.* Flowers small, pale yellow.

22. R. foliis submersis capillaceis, emersis peltatis. *Willd. sp. pl.* 2. *p.* 1332. *aquatilis.*

R. heterophyllus. *Roth fl. germ.* 1. *p.* 240.

Icon. *Engl. bot.* 101. *Fl. dan.* 376.

In ponds and slow-flowing rivulets: Canada to New York. ♃. June, July. *v. v.* Flowers white.

23. R. foliis omnibus dichotomo-capillaceis, caule natante. *Willd. sp. pl.* 2. *p.* 1333. *fluviatilis.*

Icon. *Fl. dan.* 376.

In tranquil rivers: Pensylvania to Carolina. ♃. June—Aug. *v. v.* Flowers white.

*** *Seminibus aculeatis.*

24. R. glabellus, diffusus; foliis simplicibus subrotundis trilobatis, calycibus longitudine corollarum.—*Willd. sp. pl.* 2. *p.* 1329. *muricatus.*

Icon. *Lam. illustr. t.* 498. *f.* 2. *Alp. exot.* 262.

In old fields: Virginia and Carolina. ⊙. June, July. *v. v.* Flowers yellow.

25. R. glabellus, simplex; foliis simplicibus subrotundis trilobatis, petalis calyce duplo longioribus.—*Vent. hort. cels* 73. *echinatus.*

Near Charlestown, South Carolina. *Bosc.* +. Flowers yellow, more than twice the size of the preceding one.

466. SAGITTARIA. *Gen. pl.* 1441.

1. S. foliis lanceolatis acutis sagittatis, lobis lanceolatis acutis rectis, scapo simplici, floribus monoicis, bracteis calycibusque lanceolatis acutis.—*Willd. sp. pl.* 4. *p.* 408. *sagittifolia.* β. minor.

Icon. *Fl. dan.* 172.

In small ponds and ditches: Pensylvania to Carolina.

♃. July, Aug. *v. v.* Leaves not above two inches long; flowers, as in all the following species, white.

latifolia. 2. S. foliis ovatis acutiusculis sagittatis, lobis ovatis tenuissime acuminatis rectis, scapo simplici, floribus monoicis, bracteis subrotundis obtusis.—*Willd. sp. pl.* 4. *p.* 409.

S. sagittifolia. *Mich. fl. amer.* 2. *p.* 189.

major. β. S. foliis amplis abrupte acutis, scapo subramoso, floribus dioicis.

In ponds and ditches: Canada to Carolina. ♃. June—Aug. *v. v.* Leaves large and broad.

obtusa. 3. S. foliis dilatato-ovatis rotundato-obtusis mucronatis sagittatis, lobis approximatis oblongis oblique-acuminatis rectis, scapo simplici, floribus dioicis, bracteis ovatis acutis.—*Willd. sp. pl.* 4. *p.* 409.

In ditches and shallow ponds: Pensylvania to Virginia. ♃. June—Sept. *v. v.* Leaves the size of *Calla palustris.*

hastata. 4. S. foliis oblongo-lanceolatis sensim-acutis sagittatis, lobis patentibus lanceolatis longissime acuminatis, scapo simplici, floribus dioicis, bracteis calycibusque subrotundis obtusis.

In old ditches: Pensylvania. ♃. July, Aug. *v. v.* Leaves the size of *S. sagittifolia*; the lobes very spreading.

gracilis. 5. S. foliis linearibus obtusiusculis 3-nervibus sagittatis, lobis patentibus linearibus elongatis sensim tenuissime acuminatis, scapo simplici paucifloro, floribus dioicis, bracteis brevibus suborbiculatis.

In bogs and ditches: Pensylvania to Virginia, particularly on the mountains. ♃. July, Aug. *v. v.* Leaves very slender, about three inches long, measured from the beginning of the petiole.

heterophylla. 6. S. foliis simplicibus linearibus lanceolatisque utrinque acutis, seu ellipticis acutis basi obtusis sagittatis, lobis divaricatis linearibus, scapo simplici paucifloro, floribus monoicis, femineis subsessilibus, bracteis latoovatis acuminatis.

In small ponds and ditches: Pensylvania and New Jersey. ♃. June—Aug. *v. v.* Leaves about two inches and a half long: this species is easily distinguished by the female flowers being almost sessile.

7. S. foliis lato-lanceolatis inferne angustatis, scapo subramoso, seminibus planis falcatis rostratis. *falcata.*

S. lancifolia. *Mich fl. amer.* 2 *p.* 189.

In ponds: Carolina. ♃. July, Aug *v. s. in Herb. Lyon.*

8. S. foliis angusto-lanceolatis inferne carinatis rigidis utrinque acutissimis, scapo ramoso, floribus monoicis. *rigida.*

In still and deep waters of Oswego river near the great falls, New York. ♃. July, Aug. *v v.* This species grows in a depth of more than seven feet water; the petioles are strong and stiff; the flowers very numerous.

9. S. foliis lineari-lanceolatis acutis inferne angustatis, scapo simplici multifloro, floribus dioicis, bracteis calycibusque rotundatis obtusis. *simplex.*

In small ponds: New Jersey. ♃. July, Aug. *v. v.* Leaves about six inches long and half an inch wide; flowers from twelve to eighteen in a scape.

10. S. foliis linearibus longissimis 3 nervibus, scapo simplici paucifloro, floribus monoicis, bracteis oblongis obtusis. *graminea.*

S. graminea: foliis lanceolato-linearibus, capitulis pistillorum pusillis *Mich. fl. amer* 2. *p.* 190?

In Carolina. *Lyon.* Canada. *Michaux.* ♃. July, Aug. *v. s. in Herb. Lyon.*

11. S. foliis subulatis basi vaginantibus dorso convexis, scapo simplici paucifloro, floribus monoicis, bracteis dilatatis acuminatis. *acutifolia.*

In small rivulets and ditches, near Philadelphia. ♃. July, Aug. *v. v.* A small species; leaves sometimes with a dilated point, representing a leaf.

12. S. foliis natantibus elliptico-lanceolatis obtusis 3-nervibus basi attenuatis, infimis subcordatis, scapo simplici paucifloro, pedunculis inferioribus elongatis.—*Mich. fl. amer.* 2. *p* 190. *natans.*

In rivulets of Lower Carolina. ♃. July, Aug. *v. s. in Herb. Lyon.* Flowers small; leaves about an inch and a half long.

467. CYAMUS. *Salisb. in annals of bot. 2. p. 75.*

Nelumbium. *Willd. sp. pl. 2. p. . . . . .*

flavicomus. 1. C. foliis peltatis orbiculatis integerrimis, corolla polypetala, antheris superne linearibus.—*Salisb. l. c.*
Nelumbium luteum. *Willd. sp. pl. 2. p.* 1259.
Nymphæa Nelumbo β. *Sp. pl.* 730.
Icon. *Bartr. ic. ined. in mus. Banks.*
In ponds and lakes of Carolina and Virginia; also near Philadelphia, in ditches and ponds of Brobston's meadows. ♃. July. *v. v.* Flowers large, yellow, resembling a double tulip. The seeds are very agreeable to eat, and eagerly sought for by children and Indians. By the latter it is supposed they were introduced to those ponds near Philadelphia, as there is no other instance known to have been found so far north. Walter mentions his *Nelumbo* to have white flowers; this variety I have never seen.

pentapetalus. 2. C. foliis peltatis orbiculatis integerrimis, calyce pentaphyllo, corolla pentapetala.
Nelumbium pentapetalum. *Willd. sp. pl. 2. p.* 1259.
Nymphæa pentapetala. *Walt. fl. car.* 155.
In North and South Carolina. ♃. July. *v. s.* Flowers large, white. A specimen seen in the collection of a gentleman in Carolina ascertains the existence of this formerly doubtful plant; but unfortunately I took no notes at that time, being in expectation of seeing the living plant.

reniformis. 3. C. foliis reniformibus, corolla polypetala.
Nelumbium reniforme. *Willd. sp. pl. 2. p.* 1260.
Nymphæa reniformis. *Walt. fl. car.* 155.
In Carolina. *Walter.* ♃. +. This is a doubtful species, and probably a plant belonging to a different genus.

468. POTHOS. *Gen. pl.* 210.

fœtida. 1. P. acaulis; foliis ovatis cordatis, spadice subgloboso.—*Mich. fl. amer. 2. p.* 186.
Dracontium fœtidum. *Willd. sp. pl. 2. p.* 288.
Icon. *Bot. mag.* 836. *Catesb. car. 2. t.* 71.
In low grounds, on the side of shady rivulets and springs: Canada to Virginia. ♃. Feb.—April. *v. v.* Leaves large; flowers several, almost sessile on the ground,

of a singular shape, spotted yellow and brown; the whole plant very fœtid, from which it has the name of *Skunk-weed* or *Skunk-cabbage*. It has four distinct, truncated, fleshy petals, and four stamina to each germ.

469 CALLA. *Gen. pl.* 1388.

1. C. foliis subrotundo-cordatis acutis, spatha ovata cuspidata.—*Willd. sp. pl.* 2. *p.* 290. *palustris.*
Icon. *Fl. dan.* 422.
In sphagnous swamps, on the mountains and near rivulets: Canada to Pensylvania. ♃. July, Aug. *v. v.* Flowers white.

470. ARUM. *Gen. pl.* 1387.

1. A. acaule; foliis hastato-cordatis acutis, lobis obtusis, spatha elongata incurva, spadice superne longius masculifloro.—*Willd. sp. pl.* 4. *p.* 484. *virginicum.*
Calla virginica. *Mich. fl. amer.* 2. *p.* 187.
In overflowed places on the banks of rivers, among Scirpi and Junci. ♃. June, July. *v. v.* Spatha long, involute, green.

2. A. acaule; foliis subhastato-sagittatis, lobis oblongis, spatha cucullata superne ovali, spadice longo a medio ad apicem masculifloro. *sagittifolium.*
Calla sagittifolia. *Mich. fl. amer.* 2. *p.* 187.
Caladium sagittifolium. *Willd. sp. pl.* 4. *p.* 489?
On the banks of rivers and old swamps: Pensylvania to Carolina. ♃. July, Aug. *v. v.*

3. A. acaule; foliis ternatis, foliolis ovatis acuminatis, spadice cylindrico spatha sessili ovata acuminata horizontaliter patenti altiore.—*Willd. sp. pl.* 4. *p.* 481. *atrorubens.*
Icon. *Pluk. alm. t.* 148. *f.* 6. *bona.*
In swamps of Virginia and Maryland. ♃. May, June. *v. v.* Spatha dark brown, of a disagreeable smell.

4. A. subcaulescens; foliis ternatis, foliolis ovatis acuminatis, spadice clavato spatha ovata acuminata plana pedunculata dimidio breviore, floribus monoicis.—*Willd. sp. pl.* 4. *p.* 480. *triphyllum.*
α. A. spatha virescente. virens.
Icon. *Pluk. amalth. t.* 376. *f.* 3.
β. A. spatha atropurpurea. atropurpureum.
Icon. *Pluk. alm. t.* 77. *f.* 5.
In shady wet woods: Canada to Carolina. ♃. June,

July. *v. v.* Flowers handsomely green and yellow, or green and purple striped. Roots known as a medicine among the natives, particularly in colics: they are generally called *Indian Turnips.*

Dracontium. 5. A. acaule; foliis pedatis, foliolis lanceolato-oblongis integerrimis, spadice subulato spatha oblonga convoluta longiore.—*Willd. sp. pl.* 4. *p.* 478.

Icon. *Pluk. alm. t.* 271. *f.* 2.

In shady woods: Virginia to Florida. ♃. June, July. *v. v.*

XIII. DIDYNAMIA.

I. GYMNOSPERMIA.

* *Calyces subquinquefidi.*

471. AJUGA. *Cor.* labium superius minimum bidentatum. *Stamina* labio superiore longiora.
472. TEUCRIUM. *Cor* labium superius nullum, sed fissura ejus loco in qua *Stamina* jacent.
473. MENTHA. *Cor.* subæqualis, 4-fida: lacinia latiore emarginata. *Stam.* erecta, distantia.
474. ISANTHUS. *Cal.* campanulatus. *Cor.* 5-partita: tubo recto, angusto: laciniis ovatis æqualibus. *Stam.* subæqualia. *Stigm.* linearia, recurva.
475. CUNILA. *Cal.* cylindricus, 5-dentatus, fauce villosus. *Cor.* ringens: labio superiore erecto, plano, emarginato. *Stam.* 2. sterilia.
476. HYSSOPUS. *Cor.* labium inferius tripartitum, lacinula intermedia crenata. *Stam.* recta, distantia.
477. NEPETA. *Cal.* aridus, striatus. *Cor.* tubo longiusculo: labio inferioris lacinula intermedia crenata; faux margine reflexo. *Stam.* approximata.
478. LAMIUM. *Cor.* labium superius integrum, fornicatum: labium inferius bilobum: faux utrinque margine dentata.
479. GALEOPSIS. *Cor.* labium superius subcrenatum, fornicatum: labium inferius supra 2-dentatum.
480. STACHYS. *Cor.* labium superius fornicatum: labium inferius lateralibus reflexum: lacinia intermedia majore emarginata. *Stam.* deflorata versus latera reflexa.
481. LEONURUS. *Cal.* 5-gonus, 5-dentatus. *Cor.* labium superius villosum, planum, integrum: inferius tripartitum, lacinia media indivisa.
482. GLECHOMA. *Cal.* 5-fidus. *Antherarum* singulum par in formam crucis connivens.

483. MARRUBIUM. *Cal.* hypocrateriformis, rigidus, 10-striatus. *Cor.* labium superius bifidum, lineare, rectum.

484. HYPTIS. *Cal.* 5-dentatus, crescens. *Cor.* ringens: labium superius bifidum, inferius tripartitum, lacinia media sacculiformi. *Stam.* tubi ventri inserta, declinata.

485. PYCNANTHEMUM. *Involucrum* multibracteatum, capitulis subjectum. *Cal.* tubulatus, striatus. *Cor.* labium superius subintegrum, inferius trifidum. *Stam.* subæqualia.

** *Calyces bilabiati.*

486. CLINOPODIUM. *Involucrum* multisetum, verticillo subjectum. *Cor.* labium superius planum, obcordatum, rectum.

487. ORIGANUM. *Strobilus* tetragonus, spicatus, calyces colligens. *Cor.* labium superius erectum, planum: inferius tripartitum: laciniis æqualibus.

488. DRACOCEPHALUM. *Cor.* faux inflata, labium superius concavum.

489. PRUNELLA. *Cor.* labium superius dilatatum. *Filam.* bifurca: altero apice antherifera. *Stigm.* bifidum.

490. SCUTELLARIA. *Cal.* ore integro, post florescentiam clauso, operculato. *Cor.* tubus elongatus.

491. THYMUS. *Cal.* campanulatus, faux villis clausa. *Cor.* labium superius planum, emarginatum.

492. CALAMINTHA. *Cal.* defloratus villis clausus. *Cor.* fauce inflata, labio superiore emarginato, inferiore tripartito: lacinia intermedia integra, subemarginata aut crenulata.

493. HEDEOMA. *Cal.* basi gibbus. *Cor.* ringens. *Stam.* 2. sterilia.

494. TRICHOSTEMA. *Cor.* labium superius falcatum. *Stam.* longissima.

II. ANGIOSPERMIA.

* *Calyces quinquefidi.*

495. LINNÆA. *Cal.* superus, duplex: fructus 2-phyllus; floris 5-partitus. *Cor.* campanulata. *Bacca* sicca, 3-locularis.

496. PHRYMA. *Cal.* cylindricus, supra longior, trifidus, infra bidentatus. *Cor* labium superius emarginatum, inferius majus. *Sem.* unicum.

497. VERBENA. *Cal.* 5-fidus. *Cor.* infundibuliformis, tubo incurvo, limbo inæquali, 5-fido. *Sem.* 2—4.

498. ZAPANIA. *Flor.* capitati. *Cal.* 5-dentatus. *Cor.* 5-fida. *Stam.* 4. fertilia. *Stigm.* peltato-capitatum, obliquum. *Fructus* tectus utricularis, evanescens, nectens semina 2.

499. CAPRARIA. *Cal.* 5-partitus. *Cor.* campanulata, 5-fida, acuta. *Caps.* 2-valvis, 2-locularis, polysperma.

500. HERPESTIS. *Cal.* inæqualis, basi 2-bracteatus. *Cor.* tubulosa, subbilabiata. *Stam.* inclusa. *Caps.* 2-valvis, 2-locularis, dissepimento valvis parallelo.

501. LINDERNIA. *Cal.* 5-partitus, æqualis. *Cor.* ringens, labio superiore brevissimo, inferiore 3-fido, basi bicarinata. *Anther.* per paria cohærentes. *Stigm.* bilamellatum. *Caps.* 2-locularis, 2-valvis, dissepimento valvis parallelo.

502. SCROPHULARIA. *Cal.* 5-fidus. *Cor.* subglobosa, resupinata. *Caps.* 2-locularis.

503. BIGNONIA. *Cal.* 5-fidus, cyathiformis. *Cor.* fauce campanulata, 5-fida, subtus ventricosa. *Siliqua* 2-locularis. *Sem.* membranaceo-alata.

504. RUELLIA. *Cal.* 5-partitus. *Cor.* subcampanulata, limbo 5-fido. *Stam.* conjugata *Caps.* utrinque attenuata, dentibus elastice dehiscens. *Sem.* pauca.

505. BUCHNERA. *Cal.* 5-dentatus. *Cor.* limbus 5-fidus, æqualis: lobis cordatis. *Caps.* 2-locularis.

506. ANTIRRHINUM. *Cal.* 5-phyllus. *Cor.* calcarata, ringens: rictu clauso palato prominente. *Caps.* 2-locularis, 2-valvis.

507. GERARDIA. *Cal.* 5-fidus. *Cor.* 2-labiata: labio inferiore 3-partito: lobis emarginatis: medio bipartito. *Caps.* 2-locularis, dehiscens.

508. PEDICULARIS. *Cal.* 5-fidus. *Cor.* ringens. *Caps.* 2-locularis, mucronata, obliqua. *Sem.* tunicata.

509. MIMULUS. *Cal.* prismaticus, 5-dentatus. *Cor.* ringens: labio superiore lateribus replicato. *Stigm.* crassum. *Caps.* 2-locularis, polysperma.

510. CHELONE. *Cal.* 5-partitus, 3-bracteatus. *Cor.* ringens, ventricosa. *Filam.* quintum sterile, cæteris brevius. *Caps.* 2-locularis, 2-valvis. *Sem.* plurima, margine membranacea.

511. PENTSTEMON. *Cal.* 5-phyllus. *Cor.* 2-labiata, ventricosa. *Filam.* quintum sterile, cæteris longius, superne barbatum. *Caps.* compressa, 2-locularis, 2-valvis. *Sem.* numerosa, subglobosa.

512. MARTYNIA. *Cal.* 5-fidus. *Cor.* ringens. *Caps.* lignosa, corticata, rostro hamato, 4-locularis, 2-valvis.

*** Calyces quadrifidi.*

513. SCHWALBEA. *Cal.* ventricoso-tubulosus, 4-fidus: lacinia superiore minima infima maxima, emarginata. *Cor.* ringens. *Caps.* 2-locularis, 2-valvis: dissepimento duplicato. *Sem.* paleacea.

514. RHINANTHUS. *Cal.* ventricosus, 4-fidus. *Cor.* ringens: labio superiore compresso. *Caps.* 2-locularis, compressa, obtusa.

515. BARTSIA. *Cal.* 2-lobus, emarginatus, coloratus. *Cor.* minus ipso calyce: labio superiore longiore. *Caps.* 2-locularis. *Sem.* angulata.

516. EUPHRASIA. *Cal.* cylindricus, 4-fidus. *Cor.* bilabiata: labium superius 2-fidum, inferius 3-lobum: laciniis bifidis. *Anth.* inferiores lobis spinosis.

517. MELAMPYRUM. *Cal.* 4-fidus. *Cor.* labium superius compressum, margine replicato. *Caps.* 2-locularis, obliqua, hinc dehiscens. *Sem.* 2. gibba.

**** Calyces bifidi.*

518. OBOLARIA. *Cor.* campanulata, 4-fida. *Stam.* ex divisuris corollæ. *Caps.* 1-locularis, 2-valvis, polysperma.

519. OROBANCHE. *Cor.* ringens. *Caps.* 1-locularis, 2-valvis, polysperma. *Glandula* sub basi germinis.

I. *GYMNOSPERMIA.*

471. AJUGA. *Gen. pl.* 959.

Chamæpithys. 1. A. foliis trifidis, floribus axillaribus solitariis folio brevioribus, caule diffuso. *Willd. sp. pl.* 3. *p.* 10.
Teucrium Chamæpithys. *Sp. pl.* 787.
Icon. *Fl. dan.* 733. *Rivin. t.* 24.
In sandy fields of Virginia. *Gronov.* ☉. June, July. *v. s. in Herb. Gronov.* Flowers pale yellow.

472. TEUCRIUM. *Gen. pl.* 960.

1. T. cano-hirsutissimum; foliis ovato-lanceolatis serratis, omnibus petiolatis, caule erecto, spicis verticillatis confertis, bracteis calyce duplo longioribus.—*Willd. sp. pl.* 3. *p.* 22. *canadense.*
In low grounds, on the borders of ponds and lakes: Canada to New York. ♃. July, Aug. *v. v.* Flowers purple.

2. T. pubescens; foliis ovato-oblongis serratis, superioribus subsessilibus, caule erecto, spicis verticillatis confertis, bracteis longitudine calycis.—*Willd. sp. pl.* 3. *p.* 22. *virginicum.*
Icon. *Schkuhr handb.* 160.
In low grounds and bogs: New York to Carolina. ♃. June—Aug. *v. v.* Resembles the foregoing species very much.

473. MENTHA. *Gen. pl.* 967.

1. M. floribus verticillatis, foliis lanceolatis serratis petiolatis pilosis, staminibus corollam æquantibus. *Willd. sp. pl.* 3. *p.* 82. *canadensis.*
In Canada. *Kalm.* ♃. +.

2. M. assurgens, pubescens; foliis petiolatis ovali-lanceolatis utrinque acutissimis, floribus verticillatis, staminibus exertis.—*Mich. fl. amer.* 2. *p.* 2. *borealis.*
On the banks of rivers and near springs: Canada to Pensylvania ♃. July, Aug. *v. v.* Flowers pale purple.

3. M. erecta, glabriuscula; foliis lanceolato-ovatis subsessilibus, spica gracili, verticillis minimis interrupta, staminibus non exertis.—*Mich. fl. amer.* 2. *p.* 2. *tenuis.*
M. viridis. *Walt. fl. car.* 161.
In wet places, near springs: Pensylvania to Georgia. ♃. June—Aug. *v. v.* Flowers white.

474. ISANTHUS. *Mich. fl. amer.* 2. *p.* 3.

1. I. viscido-pubescens; foliis ovali-lanceolatis utrinque acutis 3-nervibus, pedunculis 1-2-floris. *Mich. fl. amer.* 2. *p* 4. *cæruleus.*
Icon. *Mich. fl. amer.* 2. *t.* 30.
On dry hills, in lime-stone soil: Virginia and Kentucky. ⊙. July, Aug. *v. v.* Flowers pale blue.

475. CUNILA. *Gen. pl.* 46.

mariana. 1. C. foliis ovatis serratis sessilibus, corymbis terminalibus dichotomis.—*Willd. sp. pl.* 1. *p.* 122.
Icon. *Pluk. mant. t.* 344. *f.* 1.
On dry shady hills: New York to Carolina. ♃. June, July. *v. v.* Flowers red. The whole herb has an aromatic scent, and is used as tea in severe colds and other complaints, under the name of *Dittany*.

476. HYSSOPUS. *Gen. pl.* 963.

nepetoides. 1. H. spicis verticillatis cylindricis, stylis corolla brevioribus, foliis subcordatis ovatis acuminatis acute dentatis.—*Willd. sp. pl.* 3. *p.* 48.
Icon. *Jacq. hort.* 1. *t.* 69. *Pluk. alm. t.* 150. *f.* 3.
In fertile shady woods, along hedges: Pensylvania to Virginia. ♃. July, Aug. *v. v.* From three to five feet high; flowers in long close spikes, yellowish.

scrophularifolius. 2. H. spicis verticillatis cylindricis, stylis corolla longioribus, foliis cordatis ovatis acuminatis obtuse dentatis.—*Willd. sp. pl.* 3. *p.* 48.
Agastache. *Gronov. fl. virg.* 88.
Icon. *Herm. parad. t.* 106.
In wet copses and on the banks of rivers: Pensylvania to Virginia; rare. ♃. July, Aug. *v. v.* Seldom above two feet high; flowers purple.

477. NEPETA. *Gen. pl.* 964.

Cataria. 1. N. floribus spicatis, verticillis subpedicellatis, foliis petiolatis cordatis dentato-serratis. *Willd. sp. pl.* 3. *p.* 49.
Icon. *Fl. dan.* 580. *Schkuhr handb.* 157.
On road sides and in cultivated grounds: frequent. ♃. July, Aug. *v. v.* Flowers white. Common *Catnep*, so well known as a domestic medicine, has probably been introduced from Europe.

478. LAMIUM. *Gen. pl.* 971.

amplexicaule. 1. L. foliis floralibus sessilibus amplexicaulibus obtusis. *Willd. sp. pl.* 3. *p.* 90.
Pollichia amplexicaulis. *Roth germ.* 1. *p.* 254.
Icon. *Fl. dan.* 752. *Schkuhr handb.* 159.

In cultivated grounds, common; probably introduced. ☉. May—Aug. *v. v.* Flowers purple.

2. L. caule hispido, foliis longe petiolatis lato-cordatis pubescentibus, axillis unifloris.—*Mich. fl. amer.* 2. *p.* 4. *hispidulum.*
In shady woods of Tennassee. *Michaux.* +. Flowers large, white.

479. GALEOPSIS. *Gen. pl.* 972.

1. G. internodiis caulinis superne incrassatis, verticillis summis subcontiguis, calycibus pungentibus, corollis calyce parum longioribus, caule hirto. *Willd. sp. pl.* 3. *p.* 92. *Tetrahit.*
Icon. *Engl. bot.* 207.
On road sides, in the western parts of Pensylvania. ☉. July, Aug. *v. v.* Flowers white, with purple spots.

480. STACHYS. *Gen. pl.* 974.

1. S. glabriuscula, gracilis, erecta; foliis sessilibus lineari-lanceolatis rariter subdentatis, verticillis subquadrifloris.—*Mich. fl. amer.* 2. *p.* 4. *hyssopifolia.*
S. palustris. *Walt. fl. car.* 162.
In Carolina. *Michaux.* +.

2. S. caulibus erectis, retrorsum hispidissimis, foliis subpetiolatis lanceolatis acute serratis glaberrimis, verticillis subsexfloris, calycibus divaricato-spinescentibus.—*Mich. fl. amer.* 2. *p.* 5. *aspera.*
S. tenuifolia. *Willd. sp. pl.* 3. *p.* 100.
S. arvensis. *Walt. fl. car.* 162.
In low fields and on the banks of rivers: New York to Virginia. ♃. June—Aug. *v. v.* Resembles *S. palustris*; flowers purple.

3. S. caule foliisque hispido-pilosis; foliis petiolatis ovato-oblongis obtuse-serratis, verticillis subsexfloris, calycibus glabriusculis. *hispida.*
Galeopsis floris galea rubente, &c. *Gron. fl. virg. n.* 271.
In old fields and low pastures: Virginia to Carolina. ♃. July. *v. v.* Flowers purple. Gronovius's synonym has been placed under *S. annua*, from which it is widely different, as his specimen in the Banksian Museum sufficiently demonstrates.

4. S. erecta, pubescens; foliis cordato-ovatis dentatis, supra glabris subtus albicantibus tomentosis, verticillis subsexfloris. *Fœniculum.*

On the banks of the Missouri. ⊙. July. *v. s.* Flowers blue. The whole of this plant has a scent extremely like that of fennel.

481. LEONURUS. *Gen. pl.* 977.

Cardiaca. 1. L. foliis cuneiformi-ovatis trilobis dentatis, corollis calyce pungente majoribus, lacinia media labii inferioris acuta. *Willd. sp. pl.* 3. *p.* 114.
Icon. *Fl. dan.* 727. *Engl. bot.* 286.
In old fields and hedges: Pensylvania to Virginia; probably introduced from Europe. ♃. July, Aug. *v. v.* Flowers white, mixed with red.

482. GLECHOMA. *Gen. pl.* 970.

hederacea. 1. G. foliis reniformibus crenatis. *Willd. sp. pl.* 3. *p.* 85.
Icon. *Fl. dan.* 789. *Curt. lond.* 2. *t.* 44.
In orchards and on grassy hills: Pensylvania to Virginia. ♃. May, June. *v. v.* Flowers handsome, blue.

483. MARRUBIUM. *Gen. pl.* 976.

vulgare. 1. M. foliis subrotundo-ovatis dentatis rugoso-venosis, calycibus dentibus setaceis uncinatis. *Willd. sp. pl.* 3. *p.* 111.
Icon. *Fl. dan.* 1036. *Engl. bot.* 410.
On road sides; frequent. ♃. July, Aug. *v. v.* Flowers small, white.

484. HYPTIS. *Gen. pl.* 969.

capitata. 1. H. capitulis oppositis, pedunculo internodiis longitudine, bracteis lanceolatis calyce frugifero brevioribus, foliis oblongis utrinque attenuatis inæqualiter serratis.—*Willd. sp. pl.* 3. *p.* 84. *Poiteau in annal. du mus.* 7. *p.* 464.
Clinopodium capitatum. *Swartz. prodr.* 88.
Icon. *Jacq. ic. rar. t.* 114. *Annal. du mus.* 7. *t.* 27. *f.* 1.
In Lower Carolina. *Michaux.* ♃. July, Aug. *v. v.* Flowers white.

radiata. 2. H. capitulis oppositis, pedunculo internodiis longitudine, bracteis lanceolatis calyce frugifero longioribus, foliis oblongis serratis.—*Willd. sp. pl.* 3. *p.* 84. *Poiteau in annal. du mus.* 7. *p.* 466.

Clinopodium rugosum. *Sp. pl.* 822.
Icon. *Dill. elth. t.* 75. *f.* 86. *Annal. du mus.* 7. *t.* 27. *f.* 2
In Lower Carolina. ♃. +.

485. PYCNANTHEMUM. *Mich. fl. amer.* 2. *p.* 7.

Brachystemum. *Mich. fl. amer.* 2. *p.* 5.

* *Staminibus exertis.*

1. P. foliis oblongo-ovatis acutis subserratis cano-tomentosis, capitulis compositis, lateralibus pedunculatis, bracteis setaceis.—*Mich. fl. amer.* 2. *p.* 7. *incanum.*
Clinopodium incanum. *Willd. sp. pl.* 3. *p.* 132.
Icon. *Dill. elth. t.* 74. *f.* 85. *Pluk. mant. t.* 344. *f.* 7.
In low fields and copses: New York to Carolina. ♃. July—Oct. *v. v.* About three feet high; flowers white, tinged with red.

2. P. foliis lanceolato-ovatis subserratis brevissime petiolatis subcandicantibus, capitulis sessilibus, bracteis aristatis. —*Mich. fl. amer.* 2. *p.* 8. *aristatum.*
Nepeta virginica. *Willd. sp. pl.* 3. *p.* 56.
Icon. *Mich. fl. amer.* 2. *t.* 33. *Pluk. alm. t.* 85. *f.* 2.
In dry woods, in lime-stone soil: Maryland to Carolina. ♃. July, Aug. *v. v.* Flowers white, very small.

3. P. foliis ovali-lanceolatis serratis subsessilibus, capitulo sessili, calycibus approximatis erectis breviter dentatis. *Mich. fl. amer.* 2. *p.* 8. *montanum.*
On high mountains of Carolina. *Michaux.* ♃. +. Stem and leaves tinged with purple.

4. P. hirsutum; foliis abrupte petiolatis subcordato-ovalibus serratis, bracteis magnis coloratis, bracteolis ciliatis, calycibus summitate barbatis.—*Mich. fl. amer.* 2. *p.* 8. *Monardella.*
Origanum incanum. *Walt. fl. car.* 165.
Icon. *Mich. fl. amer.* 2. *t.* 34.
On the mountains of Virginia and Carolina. ♃. June —Aug. *v. v.* Flowers small, pale red.

5. P. caule stricto ramosissimo asperiusculo, foliis linearibus 3-nervibus integerrimis, capitulis terminalibus fasciculato-corymbosis. *linifolium.*
Brachystemum virginicum. *Mich fl. amer.* 2. *p.* 6.
Brachystemum linifolium. *Willd. enum.* 623.
Thymus virginicus. *Willd. sp. pl.* 3. *p.* 145.

Satureja virginiana. *Sp. pl.* 2. *p.* 793.
Origanum flexuosum. *Walt. fl. car.* 165.
Icon. *Herm. parad. t.* 218. *Pluk. alm. t.* 54. *f.* 2.
In dry swamps and mountain meadows: New England to Carolina. ♃. July, Aug. *v. v.* Flowers very small, entirely white. This and the following species approach so near to the genus *Westringia*, that they almost ought to be added to that genus.

** *Staminibus inclusis.*

lanceolatum. 6. P. caule stricto ramosissimo asperiusculo, foliis lineari-lanceolatis venosis integerrimis, capitulis terminalibus fasciculato-corymbosis.
Brachystemum lanceolatum. *Willd. enum.* 623.
In dry swamps and on the banks of rivers: Pensylvania to Virginia. ♃. July, Aug. *v. v.* Resembles the foregoing species very much; flowers white; the lower lip of the corolla has purple dots.

muticum. 7. P. foliis ovato-lanceolatis subdentatis glabriusculis, capitulis terminalibus, bracteis lanceolatis acutiusculis.—*Pers. syn.* 2. *p.* 128.
Brachystemum muticum. *Mich. fl. amer.* 2. *p.* 6.
Icon. *Mich. fl. amer.* 2. *t.* 32.
In Upper Carolina. *Michaux.* ♃. +.

verticillatum. 8. P. foliis ovato-lanceolatis integerrimis, verticillis sessilibus compactis, bracteis acuminatis.—*Pers. syn.* 2. *p.* 128.
Brachystemum verticillatum. *Mich. fl. amer.* 2. *p.* 6.
Origanum clinopodioides. *Walt. fl. car.* 165.
Icon. *Mich. fl. amer.* 2. *t.* 31.
In the mountains: Pensylvania to Carolina. ♃. July, Aug. *v. v.*

486. CLINOPODIUM. *Gen. pl.* 980.

vulgare. 1. C. capitulis verticillatis, bracteis setaceis hispidis, foliis superne pilosis remote dentatis, caule subsimplici. *Willd. sp. pl.* 3. *p.* 131.
Icon. *Fl. dan.* 930. *Engl. bot.* 1401.
In dry stony fields and woods: Canada to Virginia. ♃. July, Aug. Flowers pale purple or rose-coloured.

487. ORIGANUM. *Gen. pl.* 981.

1. O. spicis subrotundis paniculatis conglomeratis, bracteis calyce longioribus ovatis. *Willd. sp. pl.* 3. *p.* 135. *vulgare.*
Icon. *Fl. dan.* 638.
In dry stony fields and woods: Pensylvania to Virginia. ♃. July, Aug. *v. v.* Flowers pale red.

488. DRACOCEPHALUM. *Gen. pl.* 984.

1. D. spicis brevibus tetragonis, bracteis ovatis acutis, calycis dentibus inæqualibus, foliis arcte sessilibus ovali-oblongis superne denticulatis. *Vent. hort. cels t.* 44. cum icone. *variegatum.*
Prasium incarnatum. *Walt. fl. car.* 165.
In Lower Carolina. ♃. Aug. Sept. *v. v.* Flowers blueish-red, with white stripes, very ornamental.

2. D. spicis elongatis confertifloris, bracteis subulatis, calycis dentibus brevibus subæqualibus, foliis lineari-lanceolatis serratis.—*Willd. sp. pl.* 3. *p.* 149. *virginianum.*
Icon. *Bot. mag.* 467. *Rob. ic.* 207.
In mountain meadows: Virginia and Carolina. ♃. July—Sept. *v. v.* Flowers reddish-purple. There is a taller variety with dark purple flowers.

3. D. spicis elongatis remotifloris, bracteis subulatis, calycis dentibus subæqualibus, foliis obovato-lanceolatis superne denticulatis.—*Willd. sp. pl.* 3. *p.* 150. *denticulatum.*
Prasium purpureum. *Walt. fl. car.* 166.
Icon. *Bot. mag.* 214.
In the mountains of Virginia and Carolina. ♃. July—Sept. *v. v.* Resembles the former very much; it is always smaller in size, and weakly in stem.

489. PRUNELLA. *Gen. pl.* 990.

1. P. foliis petiolatis oblongo-ovatis basi dentatis, calycis labiis inæqualibus, superiore truncato aristato, caule adscendente.—*Willd. sp. pl.* 3. *p.* 176. *vulgaris.*
Icon. *Fl. dan.* 910. *Engl. bot.* 961.
In fields and meadows: New England to Carolina. ♃. July, Aug. *v. v.* Flowers violet purple.

2. P. foliis petiolatis ovato-lanceolatis basi dentatis, calycis labiis æqualibus, superiore truncato triaristato, caule adscendente. *Willd. hort. berol. p.* 9. *t.* 9. *pensylvanica.*

P. laciniata. *Walt. fl. car.* 163.
P. sylvestris autumnalis, &c. *Gron. fl. virg.* 91.
In woods and meadows: Pensylvania to Carolina. ♂. July, Aug. *v. v.* Resembles the foregoing species; the spikes are longer, and the flowers pale blue.

490. SCUTELLARIA. *Gen. pl.* 989.

lateriflora. 1. S. ramosissima, glabriuscula; foliis longissime petiolatis ovatis dentatis, caulinis subcordatis, racemis lateralibus foliosis.—*Willd. sp. pl.* 3. *p.* 172.
On the side of ditches and ponds: Canada to Carolina. ♃. July—Sept. *v. v.* Flowers blue, small.

nervosa. 2. S. simpliciuscula, glabra; foliis sessilibus ovatis dentatis nervosis, racemo terminali laxo folioso.
On the banks of rivulets: Virginia. ♃. July, Aug. *v. v.* Flowers, as the most of this genus, blue, larger than the foregoing species.

galericulata. 3. S. simpliciuscula, glabra; foliis subsessilibus ovato-lanceolatis basi subcordatis crenatis, floribus axillaribus solitariis.—*Willd. sp. pl.* 3. *p.* 173.
Icon. *Fl. dan.* 637. *Engl. bot.* 523.
In Canada and in the salt-marshes of Onondago, New York. ♃. July, Aug. *v. v.* Flowers large, pale blue.

angustifolia. 4. S. simplex, tenuissime pubescens; foliis linearibus, floribus axillaribus oppositis, genitalibus subexertis.
On the river Kooskoosky. *M. Lewis.* ♃. June. *v. s. in Herb. Lewis.*

parvula. 5. S. simplex, pusilla, dense pubescens; foliis sessilibus ovatis integerrimis, omnibus conformibus, floribus axillaribus solitariis.—*Mich. fl. amer.* 2. *p.* 11.
In Canada and the Illinois country. *Michaux.* On banks of rivers in Virginia. *Ph.* ♂. June, July. *v. v.* Not above two inches high; flowers small, pale blue.

caroliniana. 6. S. ramosa, glaberrima; foliis petiolatis lineari-lanceolatis acutis integerrimis, racemis laxis foliosis, calycibus obtusis.—*Lam. encycl.* 7. *p.* 706.
Icon. *Lam. illustr. t.* 515. *f.* 3.
In Carolina. *Fraser.* ♃. +.

integrifolia. 7. S. simpliciuscula, dense pubescens; foliis subsessilibus oblongis linearibusve obtusis integerrimis basi attenuatis, racemis laxiusculis foliosis.—*Willd. sp. pl.* 3. *p.* 173.

Icon. *Pluk. alm.* 441. *f.* 6.

β. S. foliis omnibus linearibus.—*Willd. sp. pl.* 3. *p.* 174. hyssopifolia.
On dry hills, in rich soil: New York to Carolina. ♃. July—Sept. *v. v.* Flowers large, handsome blue. This species is very variable, in size and figure of leaves, simple and branched stems, &c.

8. S. ramosa, elata, pubescens; foliis ovatis acuminatis serratis breviter petiolatis, racemis terminalibus laxiusculis plerumque paniculatis, bracteis lanceolatis brevibus.—*Bot. rep.* 494. *serrata.*
S. integrifolia. *Auctorum.*
In fields and meadows: Virginia and Carolina. ♃. July—Sept. *v. v.* The tallest species; flowers large and handsome.

9. S. simpliciuscula, pubescens; foliis remotis rhomboideo-ovatis obtusis rotundato-crenatis basi attenuatis, petiolis brevibus, racemis terminalibus laxis plerumque ramosis, bracteis lanceolatis integris.—*Mich. fl. amer.* 2. *p.* 11. *pilosa.*
S. ovalifolia. *Pers. syn.* 2. *p.* 136?
S. caroliniana. *Walt. fl. car.* 163.
Icon. *Pluk. alm. t.* 313. *f.* 4.
In shady woods: Virginia and Carolina. ♃. July, Aug. *v. v.* Resembles the foregoing one; it is a smaller plant, with only a few leaves.

491. THYMUS. *Gen. pl.* 982.

1. T. floribus capitatis, caulibus repentibus, foliis planis obtusis basi ciliatis. *Willd. sp. pl.* 3. *p.* 138. *Serpyllum.*
Icon. *Engl. bot.* 1514. *Schkuhr handb.* 144.
Common *Thyme* occurs frequently in an apparently wild state, particularly on the commons near Philadelphia. ♃. ♄. July, Aug. *v. v.* Flowers purple.

492. CALAMINTHA. *Tourn. inst.* 193.

1. C. pubescens, ramosissima; foliis ovatis obtusis subserratis, verticillis pedunculatis dichotomo-corymbosis folio longioribus, villis calycinis prominentibus. *Nepeta.*
Melissa Nepeta. *Willd. sp. pl.* 3. *p.* 147.
Thymus Nepeta. *Smith fl. brit.* 2. *p.* 642.
Icon. *Engl. bot.* 1414. *Curt. lond.* 6. *t.* 40.

In lime-stone soil, on dry barren hills: Virginia. ♃. June, July. Flowers white, tinged with red.

grandiflora. 2. C. erecto-cespitosa; foliis rhomboideo-ovalibus superne obsolete dentatis glabriusculis, verticillis subpedunculatis subdecemfloris folio brevioribus, villis calycinis inclusis.

Thymus grandiflorus. *Bot. mag.* 997.

Thymus carolinianus. *Mich. fl. amer.* 2. *p.* 9.

Thymbra caroliniana. *Walt. fl. car.* 162.

On the banks of the river Savannah, in Georgia and Carolina. ♃. ♄. July, Aug. *v. v.* Flowers large, pale purple.

493. HEDEOMA. *Pers. syn.* 2. *p.* 131.

glabra. 1. H. erecta, glabra; foliis inferioribus oblongis, superioribus lanceolatis remote serratis, pedunculis terminalibus ternis.—*Pers. syn.* 2. *p.* 131.

Cunila glabella. *Mich. fl. amer.* 1. *p.* 13.

On rocks on the river Tennassee, near Nashville. ♃. +.

pulegioides. 2. H. pubescens; foliis oblongis serratis, pedunculis axillaribus verticillatis, calycis labio inferiore biseto, setis ciliatis.—*Pers. syn.* 2. *p.* 131.

Cunila pulegioides. *Willd. sp. pl.* 1. *p.* 122.

In fields and on dry hills: Canada to Carolina. ⊙. June, July. *v. v.* A small plant; flowers small, pale blue.

hispida. 3. H. ramosa, undique hispido-pilosa; foliis linearibus nervosis margine revoluto integerrimis, verticillis subquadrifloris, calycibus hispidissimis laciniis subulatis.

On the banks of the Missouri. ⊙. June, July. *v. s.* Not above two inches high; flowers very small.

494. TRICHOSTEMA. *Gen. pl.* 988.

dichotoma. 1. T. foliis rhomboideo-lanceolatis, ramulis floriferis bifurcatis, staminibus longissimis.—*Willd. sp. pl.* 3. *p.* 170.

linearis. β. T. foliis linearibus. *Walt. fl. car.* 164.

In fields and on sunny hills: Pensylvania to Carolina. ⊙. June—Aug. *v. v.* Flowers large, fine blue; the whole plant has an agreeable resinous scent.

2. T. foliis ovato-lanceolatis, ramulis floriferis oppositis paniculatis, staminibus brevibus inclusis.—*Willd. sp. pl.* 3. *p.* 170. *brachiata.*
Icon. *Dill. elth. t.* 285. *f.* 369.
In Virginia. *Dillen.* ⊙. *v. s. in Herb. Banks.* Flowers blue.

II. *ANGIOSPERMIA.*

495. LINNÆA. *Gen. pl.* 1037.

1. L. caule prostrato, ramulis floriferis erectis bifloris, foliis subrotundis antice crenatis.—*Willd. sp. pl.* 3. *p.* 340. *borealis.*
Icon. *Fl. dan.* 3. *Engl. bot.* 433. *Fl. lapp. t.* 12. *f.* 4.
In old fir-woods of Canada and New England, and on the mountains of New York and Pensylvania. Plentifully in the woods near Wiscasset, Province of Main, and near the White Lake, on the mountains of New Jersey. ♃. ♄. May, June. *v. v.* Flowers white, tinged with red. This interesting and handsome little plant will for ever be the admiration of the botanist, should it even be only for the sake of its name.

496. PHRYMA. *Gen. pl.* 994.

1. P. foliis ovatis grosse serratis petiolatis, spicis terminalibus gracilibus, floribus oppositis.—*Willd. sp. pl.* 3. *p.* 179. *Leptostachia.*
Icon. *Pluk. amalth. t.* 380. *f.* 5. *Lam. illustr. t.* 516.
In shady, rocky woods: Canada to Carolina. ♃. June—Aug. *v. v.* Flowers small, white with purple.—Walter in his Flora Caroliniana has another species which he calls P. caroliniensis, foliis sessilibus obovato-oblongis serratis scabris, spica terminali. Of this plant I was not able to find any information in his Herbarium, and strongly suspect he means *Salvia urticifolia* by it.

497. VERBENA. *Gen. pl.* 43.

* *Foliis laciniatis.*

1. V. assurgens; spicis solitariis pedunculatis imbricatis, corollarum laciniis emarginatis, foliis ovalibus inciso-serratis petiolatis.—*Willd. sp. pl.* 1. *p.* 119. *Aubletia.*

V. longiflora. *Lam. illustr.* 1. *p.* 57.
Buchnera canadensis. *Linn. mant.* 88.
Glandularia caroliniensis. *Gmel. syst. nat.* 2. *p.* 920.
Anonymos caroliniensis. *Walt. fl. car.* 164.
Icon. *Jacq. hort.* 2. *t.* 176. *Rozier journ. d'hist. nat.* 1. *t.* 2.
In Carolina and Georgia. ♂. June, July. *v. v.* Flowers large, of a beautiful purple.

bracteosa. 2. V. pumila, decumbens, hirsutissima; foliis laciniatis, spica floribus subimbricata, bracteis linearibus longissimis et undique patentibus squarrosa. *Mich. fl. amer.* 2. *p.* 13.
Zapania bracteosa. *Lam. encycl.* 8. *p.* 843.
In Illinois and Kentucky. ♃. July. *v. s. in Herb. Lyon.* Flowers light purple.

spuria. 3. V. caule decumbente ramosissimo divaricato, foliis multifido-laciniatis, spicis filiformibus, bracteis calyces superantibus.—*Willd. sp. pl.* 1. *p.* 119.
On slate-hills and lime-stone rocks: Illinois, Virginia and Kentucky. ♂. July, Aug. *v. v.* Flowers very small, blue.

hastata. 4. V. erecta, elatior; foliis lanceolatis acuminatis inciso-serratis nonnullis inciso-hastatis, spicis linearibus paniculatis subimbricatis.—*Willd. sp. pl.* 1. *p.* 118.
Icon. *Herm. parad.* 242.

pinnatifida. β. V. foliis inciso-pinnatifidis grosse serratis. *Lam. illustr.* 1. *p.* 57.
On road sides, in wet soil, and on the banks of rivers: Canada to Carolina. ♃. July, Aug. *v. v.* From two to five feet high; flowers purple, sometimes white.

** *Foliis integris.*

paniculata. 5. V. erecta, scabriuscula; foliis lanceolatis grosse serratis indivisis, spicis filiformibus imbricatis corymboso-paniculatis.—*Lam. encycl.* 8. *p.* 548.
On the natural meadows of the high mountains of Virginia and Carolina. ♃. July, Aug. *v. v.* From four to six feet high; flowers very numerous, purple.

urticifolia. 6. V. erecta, subpubescens; foliis ovatis acutis serratis petiolatis, spicis filiformibus distinctifloris axillaribus terminalibusque.—*Willd. sp. pl.* 1. *p.* 119.
Icon. *Riv. monop.* 57. *Rob. ic.* 26.
On road sides and cultivated grounds: New England to

Carolina. ♃. June—Sept. *v. v.* Flowers very small, white.

7. V. erecta, ramosissima; foliis ovato-lanceolatis serratis subpubescentibus, spicis longissimis laxis paniculatis valde diffusis.—*Lam. encycl.* 8. *p.* 550. *diffusa.*

In North America. *Lamarck.* ♃. ♄. +. Flowers very small, somewhat purple. This species has a very near resemblance to the foregoing.

8. V. humilis, erecta; foliis lineari-lanceolatis basi attenuatis rariter serratis lineato-venosis, spicis filiformibus solitariis terminalibus axillaribusve.—*Willd. enum.* 633. *rugosa.*

V. angustifolia. *Mich. fl. amer.* 2. *p.* 14.

In dry soil, on road sides, particularly in lime-stone soil: Pensylvania to Tennassee. ♃. June—Aug. *v. v.* Not above a foot high; flowers fine blue.

9. V. erecta, scabra; foliis oblongo-obovalibus obtusis inæqualiter serratis basi attenuatis subsessilibus, spicis longissimis filiformibus distinctifloris.—*Willd. sp. pl.* 1. *p.* 119. *caroliniana.*

Icon. *Dill. elth. t.* 301. *f.* 388.

In dry sandy fields: Carolina to Georgia. ♃. June, July. *v. s.* Flowers pale red.

10. V. hirsuta, albicans; caulibus rigide erectis, foliis sessilibus obovalibus serratis subtomentoso-hirsutissimis, spicis strictis imbricatis subfasciculatis.—*Willd. enum.* 633. *Vent. hort. cels p.* 53. cum icone. *stricta.*

V. rigens. *Mich. fl. amer.* 2. *p.* 14.

In Carolina and the Illinois country. ♃. July, Aug. *v. s. in Herb. Lambert.*

498. ZAPANIA. *Lam. illustr.* 1. *p.* 58.

1. Z. foliis ovato-cuneiformibus superne serratis, spicis capitato-conicis solitariis elongato-pedunculatis, caule herbaceo repente.—*Lam. illustr.* 1. *p.* 59. *nodiflora.*

Verbena nodiflora. *Willd. sp. pl.* 1. *p.* 117.

Lippia nodiflora. *Mich. fl. amer.* 2. *p.* 15.

Blairia nodiflora. *Gært. de fruct. et sem.* 1. *p.* 266. *t.* 56.

Icon. *Lam. illustr.* 1. *t.* 17. *f.* 3. *Rob. ic.* 30.

On the coast of Virginia and Carolina, and on the banks of the Ohio. ♃. July, Aug. *v. v.* Flowers white, small.

2. Z. foliis lineari-lanceolatis argute serratis, spicis capitato- *lanceolata.*

conicis solitariis elongato-pedunculatis, caule herbaceo repente.—*Pers. syn.* 2. *p.* 140.

Lippia lanceolata. *Mich. fl. amer.* 2. *p.* 15.

In Carolina and Georgia, on the banks of rivers. ♃. July, Aug. *v. v.* Flowers white.

499. CAPRARIA. *Gen. pl.* 1030.

multifida. 1. C. erecta, viscido-pubescens; foliis superioribus terno-verticillatis multifidis, pedicellis solitariis.—*Mich. fl. amer.* 2. *p.* 22. *t.* 36.

On the banks of rivers, in the western parts of the settlements, particularly on the Missouri and Mississippi. ☉. July, Aug. *v. s.* Flowers small, greenish-white.

500. HERPESTIS. *Gært. carp.* 3. *p.* 187. *t.* 214.

Monniera. *Mich. fl. amer.* 2. *p.* 22.

rotundifolia. 1. H. minutim pubescens; foliis subovali-orbiculatis multinervibus, pedunculis passim oppositis folia subæquantibus.

Monniera rotundifolia. *Mich. fl. amer.* 2. *p.* 22.

On overflowed banks of rivers, in the Illinois and other western parts. ♃. July, Aug. *v. s.* Flowers pale blue, small.

amplexicaulis. 2. H. caulibus lanatis, foliis breviter cordato-ovalibus amplexicaulibus integris obtusis, pedunculis folio brevioribus.

Monniera amplexicaulis. *Mich. fl. amer.* 2. *p.* 22.

In ponds and ditches: Carolina and Georgia. ♃. June—Aug. *v. v.* Flowers blue, larger than the other species.

cuneifolia. 3. H. glaberrima; foliis cuneato-obovalibus superne obsolete subcrenatis, pedunculis folia subæquantibus.

Monniera cuneifolia. *Mich. fl. amer.* 2. *p.* 22.

On the overflowed banks of rivers, near the sea-shore: Pensylvania to Carolina. ♃. Aug. *v. v.* Leaves thick; flowers very small, pale blue.

micrantha. 4. H. glabra, succulenta; foliis arcte sessilibus ovalibus obtusis integerrimis striato-nervosis, pedunculis folio brevioribus, calyce 5-phyllo, stylo bifido.

Gratiola repens. *Willd. sp. pl.* 1. *p.* 103?

Icon. *Swartz. ic. t.* 33.

On the banks of rivers, to the edge of low water mark: Pensylvania to Virginia. ☉. July, Aug. *v. v.* Flowers very small, white. It approaches near to *Lindernia.*

501. LINDERNIA. *Gen. pl.* 1031.

1. L. glaberrima; foliis oblongo-ovatis obsolete dentatis sessilibus, pedunculis axillaribus unifloris, corollis calyce duplo longioribus, capsulis calyce brevioribus.—*Willd. sp. pl.* 3. *p.* 325? *pyxidaria.*

Gratiola inæqualis. *Walt. fl. car.* 61.

Gratiola anagalloidea. *Mich. fl. amer.* 1. *p.* 6.

Gratiola floribus pedunculatis, foliis ovatis crenatis. *Gron. fl. virg.* 3.

β. L. foliis repando-dentatis, pedunculis brevibus. major.

On the banks of ponds and rivers, in gravelly soil: New York to Virginia. ☉. July, Aug. *v. v.* Flowers blue. The European plant, figured by Schkuhr and Krocker, seems to be a very different species from the present one, as the corolla is shorter than the calyx.

502. SCROPHULARIA. *Gen. pl.* 1014.

1. S. foliis cordatis serratis acutis basi rotundatis, petiolis inferne ciliatis, paniculæ fasciculis laxe paucifloris.—*Willd. sp. pl.* 3. *p.* 269. *marylandica.*

S. nodosa β. americana. *Mich. fl. amer.* 2. *p.* 21.

In low grounds: Pensylvania to Carolina. ♃. June—Aug. *v. v.* Flowers greenish-brown. The plant often more than four feet high.

2. S. foliis lanceolatis inæqualiter serratis acuminatis basi acutis, petiolis nudis, paniculæ fasciculis corymbosis. *lanceolata.*

In wet meadows and woods: Pensylvania. ♃. Aug. Sept. *v. v.* Flowers greenish-yellow.

503. BIGNONIA. *Gen. pl.* 1018.

1. B. foliis conjugatis cirrhosis, inferioribus ternatis, foliolis ovato-cordatis acuminatis, racemis axillaribus, caule muricato. *Willd. sp. pl.* 3. *p.* 296. *crucigera.*

Icon. *Plum. ic. t.* 58.

In shady woods: Carolina to Florida. ♄. June, July. *v. v.* Flowers yellowish-scarlet.

2. B. foliis conjugatis cirrhosis, foliolis oblongis basi subcordatis, imis simplicibus.—*Willd. sp. pl.* 3. *p.* 297. *capreolata.*

Icon. *Bot. mag.* 864. *Jacq. hort. schœnbr.* 363.
In shady woods, on the banks of rivers and lakes: Virginia to Florida. ♄. July, Aug. *v. v.* Flowers scarlet.

radicans. 3. B. foliis pinnatis, foliolis ovatis dentatis acuminatis, corymbo terminali, tubo corollæ calyce triplo longiore, caule radicante.—*Willd. sp. pl.* 3. *p.* 301.
Tecoma radicans. *Juss.*

flammea. *α.* B. floribus luteo-coccineis.
Icon. *Schmidt arb. t.* 42.

coccinea. *β.* B. floribus coccineis.
Icon. *Schmidt arb. t.* 43 & 44. *Bot. mag.* 485. *Catesb. car.* 1. *t.* 65.
On the banks of rivers: Pensylvania to Florida. ♄. July, Aug. *v. v.* This highly ornamental creeper ascends the tallest trees and highest rocks, and with its large scarlet flowers produces one of the most pleasing effects in ornamental gardening.

504. RUELLIA. *Gen. pl.* 1050.

strepens. 1. R. erecta, hirsuta; foliis petiolatis lanceolato-ovatis integerrimis, pedunculis 1—3-floris, calycis laciniis lanceolatis hispidis tubo corollæ duplo brevioribus.—*Willd. sp. pl.* 3. *p.* 363.
Icon. *Schkuhr handb.* 177. *Dill. elth. t.* 249. *f.* 321.
On dry hills, in shady woods: Virginia to Carolina. ♃. June, July. *v. v.* Flowers large, pale blue, as are all the following.

oblongifolia. 2. R. assurgens, dense pubescens; foliis subsessilibus obovato-oblongis, floribus solitariis, bracteis longitudine calycis, calycis laciniis filiformibus longitudine tubi corollæ.—*Mich. fl. amer.* 2. *p.* 23.
R. biflora. *Willd. sp. pl.* 3. *p.* 368?
In sandy pine-woods: Georgia. ♃. June, July. *v. s.* Flowers yellowish-blue.

hybrida. 3. R. erecta, ramosissima, pilis albidis hirsuta; foliis subsessilibus oblongis utrinque subacutis dense hirsutis, bracteis calyce brevioribus, calycis laciniis linearibus tubo corollæ vix brevioribus.
In sandy fields near Savannah, Georgia. ♃. July. *v. s. in Herb. Enslen.*

ciliosa. 4. R. erecta, ramosa; foliis subsessilibus ovato-oblongis margine nervis venisque pilis albis longe ciliatis, brac-

teis lanceolatis brevibus, calycis laciniis subulatis tubo corollæ quadruplo brevioribus.

Near Savannah, Georgia. ♃. July. *v. s. in Herb. Enslen.*

5. R. glabriuscula, diffusa, radicans; foliis in petiolum longiuscule angustatis ovalibus obtusis, floribus subsessilibus, capsulis linearibus. *Mich. fl. amer.* 2. *p.* 23. — *humistrata.*

In Georgia and Florida. *Michaux.* +.

505. BUCHNERA. *Gen. pl.* 1035.

1. B. caule simplici, foliis lanceolatis subdentatis asperis trinervibus, spicis remotifloris.—*Willd. sp. pl.* 3. *p.* 334. — *americana.*

On dry sandy hills: Pensylvania to Carolina; rare. ♃. July. *v. v.* Flowers deep blue.

506. ANTIRRHINUM. *Gen. pl.* 1007.

1. A. procumbens, pilosum; foliis alternis hastatis integerrimis, pedunculis solitariis longissimis.—*Willd. sp. pl.* 3. *p.* 234. — *Elatine.*

Icon. *Fl. dan.* 426. *Engl. bot.* 692.

In sandy fields: Pensylvania to Virginia. ⊙. July, Aug. *v. v.* Flowers yellow mixed with purple.

2. A. erectum, glabrum; foliis sparsis lanceolato-linearibus confertis, spicis terminalibus densifloris, calycibus glabris calcare brevioribus.—*Willd. sp. pl.* 3. *p.* 253. — *Linaria.*

Icon. *Fl. dan.* 982. *Engl. bot.* 658.

In fields and dry hills, near houses; frequent. ♃. June—Aug. *v. v.* Flowers large, yellow. This fine-looking plant is one of the worst and most troublesome weeds in several parts of Pensylvania and Virginia.

3. A. assurgens, glabrum, simplicissimum; foliis sparsis erectis angusto-linearibus obtusis remotis, floribus racemosis, stolonibus procumbentibus.—*Willd. sp. pl.* 3. *p.* 255. — *canadense.*

Icon. *Vent. hort. cels* 49.

In low grounds: Canada to Carolina. ⊙. June—Aug. *v. v.* Flowers small, purple.

4. A. pusillum, simplex, glabrum; foliis oppositis linearibus acutis, floribus axillaribus brevi-pedunculatis, calycibus campanulatis. — *tenellum.*

On the banks of the Missouri. *M. Lewis.* ☉. July. *v. v.*; *v. s. in Herb. Lewis.* Flowers bright blue, large in proportion to the size of the plant.

Orontium. 5. A. erectum, ramosum, pubescens; foliis alternis lanceolatis, floribus subspicatis, calycibus digitatis corolla longioribus, corollis ecaudatis.—*Willd. sp. pl.* 3. *p.* 258.

Icon. *Curt. fl. lond.* 4. *t.* 45. *Riv. t.* 82.

In fields: Virginia; rare. ☉. July, Aug. *v. v.* Flowers pale purple.

507. GERARDIA. *Gen. pl.* 1004.

* *Flores purpurei.*

purpurea. 1. G. caule opposite ramosissimo, foliis linearibus, floribus axillaribus oppositis subsessilibus.—*Willd. sp. pl.* 3. *p.* 221.

Icon. *Pluk. mant. t.* 388. *f.* 1.

crassifolia. β. G. foliis carnosis brevioribus.

In fields and woods: New England to Carolina. β. In salt-marshes, near New York, &c. ♂. July, Aug. *v. v.*

tenuifolia. 2. G. paniculato-ramosa; foliis linearibus, pedunculis axillaribus oppositis flore longioribus.—*Willd. sp. pl.* 3. *p.* 222.

G. erecta. *Walt. fl. car.* 170. *Mich. fl. amer.* 2. *p.* 20.

Icon. *Pluk. alm. t.* 12. *f.* 4.

In fields and woods: Pensylvania to Carolina. ♂. July, Aug. *v. v.*

setacea. 3. G. caule ramosissimo, foliis setaceis, ramulis axillaribus folio longioribus plerumque unifloris.—*Walt. fl. car.* 170.

In sandy fields: Pensylvania to Virginia. ☉. Aug. *v. v.* Resembles the foregoing one; but the flowers are not axillary but terminal, very seldom two on a branch.

auriculata. 4. G. subsimplex, tota aspera; foliis ovato-lanceolatis basi 2-auriculatis integerrimis, floribus axillaribus oppositis foliisque arcte sessilibus.—*Mich. fl. amer.* 2. *p.* 20.

In dry stony fields: Virginia and Illinois. ☉. July, Aug. *v. v.* Not above eight inches high, without branches.

cuneifolia. 5. G. paniculato-ramosa; ramis erectis, foliis cuneato-lanceolatis inæqualiter serratis superioribus alternis,

Gerardia fruticosa.

Gerardia quercifolia.

Drawn & Engraved by V. Hooker.

pedunculis axillaribus folio longioribus, calycibus 5-partitis.

In Georgia. *Bartram.* *v. s. in Herb. Banks.*

6. G. ramosissima; foliis lanceolatis serratis basi attenuatis subpetiolatis, racemis terminalibus, floribus oppositis bracteatis. *fruticosa.*

In great abundance in the pine-forests of the Rocky-mountains. *M. Lewis.* ♄. June. *v. s. in Herb. Lewis.*

Frutex elegans 3–4-pedalis ramosissimus. *Rami* teretes, dense foliosi, tenuissime pubescentes. *Folia* semuncialia, opposita, lanceolata, acuta, interdum obtusa cum mucrone, superne acute serrata, inferne quasi in petiolum attenuata, integerrima, utrinque glabra. *Racemi* terminales, simplices, erecti, bracteati. *Flores* oppositi, pedicellati, magnitudine et colore *Digitalis purpurei*. *Bracteæ* oppositæ, sessiles, oblongæ, acutæ, integerrimæ, pedicellis vix breviores. *Calyx* profunde 5-partitus, basi unibracteolatus: laciniis lanceolatis, acutis. *Bracteolæ* lineares, calyce breviores. *Corollæ: Tubus* calyce quadruplo longior, superne ventricosus. *Limbus* patens, subæqualis, 5-fidus: *Laciniis* rotundatis. *Filamenta* tubo duplo breviora, imo corollæ inserta. *Antheræ* oblongæ, hirsutissimæ. *Stylus* longitudine tubi. *Capsula*......

** *Flores flavi.*

7. G. pubescens; caulibus subsimplicibus, foliis subsessilibus lanceolatis integerrimis vel dentatis, inferioribus subpinnatifido-incisis, floribus axillaribus oppositis subsessilibus.—*Willd. sp. pl.* 3. *p.* 223. *flava.*

Icon. *Pluk. mant. t.* 389. *f.* 3.

In dry shady and rocky woods: New England to Florida. ♃. July—Sept. *v. v.* Flowers large, and, as all the following, yellow. It is seldom more than two feet high.

8. G. glabra; caule paniculato, foliis petiolatis pinnatifidis: laciniis lanceolatis acutis integris vel postice inciso-dentatis, summis lanceolatis integris, floribus axillaribus oppositis pedicellatis. *quercifolia.*

Rhinanthus virginicus. *Willd. sp. pl.* 3. *p.* 191.

Icon. *Pluk. alm. t.* 389. *f.* 1.

On the banks of rivers, in rich shady places: Pensylvania to Carolina. ♃. July, Aug. *v. v.* From three to five feet high. This fine species has been generally

confounded with the foregoing one, but differs widely from it. The stem is smooth, purple, with a blue dew over it, and very much branched. The flowers are nearly the size, shape, and colour of the preceding species. The original specimen of Gronovius of *Rhinanthus virginicus*, in the Banksian Museum, is evidently our present plant.

Pedicularia. 9. G. pubescens, brachiatim-paniculata; foliis oblongis duplicato-inciso-serratis pinnatifidisque, floribus axillaribus oppositis pedicellatis, calycis laciniis foliaceis inciso-dentatis.—*Willd. sp. pl.* 3. *p.* 223.
Icon. *Lam. illustr. t.* 529. *f.* 2.
In dry shady woods: New York to Carolina. ♂. June —Aug. *v. v.* A very handsome species, of which there are several very striking varieties.

cassioides. 10. G. virgatim-paniculata; foliis setaceo-pinnatifidis: laciniis linearibus.
G. Afzelia. *Mich. fl. amer.* 2. *p.* 20.
Afzelia cassioides. *Gmel. syst. nat.* 927.
Anonymos cassioides. *Walt. fl. car.* 171.
In dry sandy woods of Carolina and Georgia. ☉. July, Aug. *v. s.* Flowers small, yellow.

508. PEDICULARIS. *Gen. pl.* 1003.

euphrasioides. 1. P. caule ramoso pubescente, foliis pinnatifidis dentatis, calycibus tubulosis bipartitis truncatis, corollæ galea bidentata. *Willd. sp. pl.* 3. *p.* 204.
Icon. *Houttuyn. linn. syst.* 8. *t.* 57.
In Labrador. *Colmaster.* ♃. *v. s. in Herb. Dickson.* Flowers yellow; from six to eight inches high.

pallida. 2. P. caule ramoso elato glabro, foliis suboppositis lanceolatis crenatis dentatis, spica aphylla glabra, corollæ galea obtusa, calyce bifido rotundato.—*Herb. Banks.*
P. virginica. *Lam. encycl.* 5. *p.* 126.
In swamps, on lime-stone soil: Virginia. *Lamarck.* In a swamp near King's-bridge, New York. *Ph.* ♃. July, Aug. *v. v.; v. s. in Herb. Banks.* Flowers yellow; grows upwards of three feet high. I considered this species to be the *Rhinanthus virginicus,* which Linnæus had adopted from Gronovius's Flora Virginica; but on examining the Gronovian Herbarium in the Banksian Museum, I found his *Rhinanthus* to be the *Gerardia quercifolia.*

lanceolata. 3. P. caule simplici, foliis lanceolatis inciso-dentatis, spica

aphylla, calycibus glabris, capsulis brevibus. *Mich. fl. amer.* 2. *p.* 18.

In the Illinois country. *Michaux.* ♃.

4. P. caule simplici, foliis lanceolatis pinnatifidis dentatis, spica foliosa alterniflora hirsuta, capsulis in mucronem gladiatum exertum protractis.—*Mich. fl. amer.* 3. *p.* 18. *gladiata.*

In rich soil, in grassy moist places: Pensylvania to Virginia. ♃. May, June. *v. v.* Flowers yellow, tinged with purple; sometimes a foot high.

5. P. caule simplici, foliis pinnatifidis inciso-dentatis, capitulo basi folioso hirsuto, corollis galea setaceo-bidentata, calycibus deorsum truncatis.—*Willd. sp. pl.* 3. *p.* 211. *canadensis.*

In woods and meadows: Canada to Carolina. ♃. May —July. *v. v.* About a span high; flowers yellowish-white, with a tinge of purple.

6. P. caule simplici glabro, foliis lanceolatis dentatis crenatis, calycibus bifidis truncatis, corollæ galea acuta. *Willd. sp. pl.* 3. *p.* 206. *resupinata.*

Icon. *Gmel. fl. sib.* 3. *t.* 44.

In Canada. ♃. July. *v. s.* About a foot high; flowers deep purple.

7. P. caule simplici, foliis profunde pinnatifidis, pinnis lanceolatis pinnatifidis dentatis, spica compacta foliosa, calycibus glabris quinquedentatis, corollæ galea obtusissima. *Willd. sp. pl.* 3. *p.* 210. *recutita.*

Icon. *Jacq. fl. austr.* 258.

On the north-west coast. *A. Menzies*; and probably throughout Canada. ♃. July. *v. s. in Herb. Banks.* Flowers purple.

8. P. caule simplici, foliis profunde pinnatifidis, pinnis lineari-lanceolatis crenatis, spica laxa subfoliosa, calycibus glabris 5-dentatis, corollæ galea obtusa truncata. *Willd. sp. pl.* 3. *p.* 210. *elata.*

In low plains, on the waters of Clarck's river. *M. Lewis.* ♃. July. *v. s. in Herb. Lewis.* Near two feet high; flowers purple.

9. P. caule simplici, foliis pinnatifidis, pinnis serratis, calycibus bifidis oblongis, corollæ galea uncinata truncata. *Willd. sp. pl.* 3. *p.* 207. *lapponica.*

Icon. *Fl. dan.* 2. *Fl. lapp. t.* 4. *f.* 1.

In Labrador. *Colmaster.* ♃. July. *v. s. in Herb. Dickson.* Flowers yellow.

grœnlandica. 10. P. caule simplici, foliis profunde pinnatifidis, pinnis lanceolatis acuminatis serratis, calycibus glabris 5-dentatis, corollis clausis, galea uncinato-subulata. *Willd. sp. pl.* 3. *p.* 212.

Icon. *Fl. dan.* 1166. *Retz. obs.* 4. *t.* 1.

In low plains of the Columbia. *M. Lewis.* ♃. July. *v. s. in Herb. Lewis. nec non Lambert.* Flowers purple.

verticillata. 11. P. caule simplici, foliis caulinis profunde pinnatifidis quaternis, pinnis linearibus acute dentatis, spica capitata involucrata, calycibus villosis 5-fidis, corollæ galea obtusissima.

P. verticillata β. *Willd. sp. pl.* 3. *p.* 214.

P. lanata. *Pallas in Herb. Lambert.*

On the north-west coast. *Nelson.* ♃. *v. s. in Herb. Banks. nec non Lambert.* Not above two inches high; flowers purple.

flammea. 12. P. caule simplici, foliis pinnatis, pinnis imbricatis ovatis obtusis duplicato-dentatis, calycibus 5-dentatis, corollæ galea obtusa. *Willd. sp. pl.* 3. *p.* 215.

Icon *Fl. dan.* 30. *Fl. lapp. t.* 4. *f.* 2. *Hall. fl. helv. t.* 8. *f.* 3.

In Labrador. *Colmaster.* ♃. *v. s. in Herb. Dickson.* Not above three inches high; flowers yellow, with a scarlet helmet.

509. MIMULUS. *Gen. pl.* 1049.

ringens. 1. M. erectus, glaber; foliis sessilibus lanceolatis acuminatis serratis, pedunculis axillaribus oppositis flore longioribus, dentibus calycis oblongis acuminatis.—*Willd. sp. pl.* 3. *p.* 360.

Icon. *Bot. mag.* 283. *Pluk. amalth. t.* 393. *f.* 3.

In low grounds, on clay soil: Pensylvania to Carolina. ♃. July, Aug. *v. v.* Flowers pale blue, large.

alatus. 2. M. erectus, glaber; foliis petiolatis ovatis acuminatis serratis, pedunculis axillaribus oppositis flore brevioribus, dentibus calycis rotundatis mucronatis, caule tetragono alato.—*Willd. sp. pl.* 3. *p.* 361.

In ditches and on the borders of ponds: Pensylvania to Carolina. ♃. July, Aug. *v. v.* Flowers the size and colour of the foregoing.

luteus. 3. M. erectus, glaber, stoloniferus; foliis subrotundo-ovatis nervosis dentatis, inferioribus obtusis petiolatis, superioribus acutis arcte sessilibus, racemo terminali,

Mimulus Lewisii.

Drawn & Engraved by W. Hooker

Lupinus villosus.

pedunculis axillaribus oppositis elongatis, calyce inæquali, dentibus acutiusculis.—*Willd sp pl.* 3. *p.* 361.
Icon. *Feuill. peruv.* 2. *t.* 34.
On the banks of Clarck's river. *M. Lewis* On the north-west coast. *Pallas.* ♃. July, Aug. *v. s in Herb. Lewis. nec non Lambert.* Flowers golden-yellow. It has lately been introduced into the gardens, and will be a fine addition to our hardy perennial plants.

4. M. erectus, pusillus, pubescens; foliis sessilibus oblongolanceolatis acutis nervosis mucronato-denticulatis floribus paucis terminalibus longissime pedunculatis, dentibus calycis acuminatis. *Lewisii.*
On the head springs of the Missouri, at the foot of Portage hill. *M. Lewis* ♃ Aug *v. s. in. Herb. Lewis.* Not above eight inches high; flowers two or three, larger than any other known species, of a beautiful pale purple.

510. CHELONE. *Gen. pl.* 1005.

1. C. foliis oppositis lanceolato-oblongis acuminatis serratis, spicis terminalibus densifloris.—*Willd. sp. pl.* 3. *p.* 225. *glabra.*
α. C. foliis subsessilibus, floribus albis. alba.
β. C. foliis brevi-petiolatis, floribus purpureis. purpurea.
C. obliqua. *Willd sp pl.* 3. *p.* 225.
C. purpurea. *Mill. dict n.* 2.
Icon. *Schkuhr handb.* 172. *Mill. ic.* 93. *Pluk. mant. t.* 348. *f.* 3.
On the banks of rivers, ponds, and swamps: New England to Carolina β In rivulets on the high mountains of Virginia and Carolina. ♃. July, Aug. *v. v.* Flowers large, in close spikes, in var. α. white; purple in var. β. I have not been able to find sufficient distinctions between *C glabra* and *C. obliqua*, so as to consider them distinct species.

511. PENTSTEMON. *Gen. pl.* 1758.

1. P. caule glabro, foliis lævigatis ovato-oblongis basi amplexicaulibus tenuissime denticulatis inferioribus integerrimis, floribus paniculatis, filamento sterili superne barbato. *Willd. sp. pl* 3. *p.* 228. *lævigata.*
Chelone Penstemon. *J F. Miller. ic.* 4.
Icon. *Lam. illustr.* 528. *Arduin. spec. t.* 5. *Moris. hist.* 2. *s.* 5. *t.* 8. *f.* 6.

In stony low grounds: Pensylvania to Carolina. ♃. July—Sept. *v. v.* From one to two feet high; flowers pale purple.

pubescens. 2. P. caule pubescente, foliis serrulatis lanceolato-oblongis sessilibus, floribus paniculatis, filamento sterili ab apice infra medietatem barbato.—*Willd. sp. pl.* 3. *p.* 227.

Chelone Pentstemon. *Mant.* 415.

latifolia. α. P. foliis lævigatis serratis latioribus.

Icon. *Moris. hist.* 3. *s.* 11. *t.* 21. *f.* 2.

angustifolia. β. P. foliis pubescentibus obscure denticulatis angustis.

P. hirsuta. *Willd. sp. pl.* 3. *p.* 227.

Chelone hirsuta. *Mill. dict. n.* 3.

Icon. *Moris. hist.* 3. *s.* 11. *t.* 21. *f.* 3.

On the side of hills and in dry meadows: New York to Virginia. ♃. July—Sept. *v. v.* About a foot high; flowers pale purple, longer than the foregoing species.

frutescens. 3. P. caule fruticoso, ramis angulatis superne pubescentibus, foliis lanceolatis obsolete denticulatis sessilibus glabriusculis, racemis terminalibus subcorymbosis, filamento sterili longitudinaliter barbato.—*Lambert in linn. trans.* 10. *p.* 259.

Icon. *Linn. trans.* 10. *t.* 6.

On the north-west coast. *M. Lewis.* Unalashka. *Pallas.* ♄. *v. s. in Herb. Lambert. nec non Lewis.* A small shrub, about a foot or more high; flowers purple.

512. MARTYNIA. *Gen. pl.* 1010.

Proboscidea. 1. M. caule ramoso, foliis alternis cordatis integerrimis villosis.—*Willd. sp. pl.* 3. *p.* 264.

M. alternifolia. *Lam. encycl.* 2. *p.* 112.

M. annua. *Sp. pl.* 862.

Icon. *Bot. mag.* 1056. *Mill. ic.* 286.

On the banks of the Mississippi. ☉. July. *v. v.* Flowers large, white, speckled with purple and yellow. The singular shape of its fruit, connected with the beauty of its flowers, makes this annual a desirable plant in all collections.

513. SCHWALBEA. *Gen. pl.* 1001.

americana. 1. S. simplex, pubescens; foliis lanceolatis, racemo terminali, floribus alternis.— *Willd. sp. pl.* 3. *p.* 201.

Icon. *Lam. illustr.* 520. *Pluk. mant. t.* 348. *f.* 2.

In pine-barrens: New Jersey to Carolina. ♃. ♂. June, July. *v. v.* Flowers yellowish-brown.

514. RHINANTHUS. *Gen. pl.* 997.

1. R. corollarum labio superiore emarginato bidentato, lacinia media labii inferioris brevissima. *Willd. sp. pl.* 3. *p.* 188. *Crista galli.*
   Icon. *Schkuhr handb.* 169. *Fl. dan.* 981. *Engl. bot.* 657.
   In fields and meadows: Lower Canada. ☉. June, July. *v. v.* Flowers yellow. *R. virginicus.* Vid. *Gerardia & Pedicularis pallida.*

515. BARTSIA. *Gen. pl.* 996.

1. B. foliis alternis linearibus indivisis, superioribus lanceolatis, floralibus subovalibus summitate subdentatis, omnibus 3-nervibus, dentibus calycis acutis.—*Willd. sp. pl.* 3. *p.* 186. *Mich. fl. amer.* 2. *p.* 17. *pallida.*
   Icon. *Gmel. fl. sib.* 3. *t.* 42.
   In Canada and Labrador. On the White-hills of New Hampshire. *Prof. Peck.* ♃. July. *v. s. in Herb. Lambert.* Flowers pale yellow; the floral leaves purple.
2. B. foliis alternis prælongo-linearibus, floralibus ovatis longissime acuminatis 3-nervibus, omnibus indivisis, floribus bracteis brevioribus, dentibus calycis acutis. *acuminata.*
   On the north-west coast: Unalashka. ♃. *v. s. in Herb. Lambert.*
3. B. hirsutissima; foliis alternis linearibus inciso-pinnatifidis: laciniis filiformibus, bracteis membranaceis oblongis obtusis basi utrinque hastato-unidentatis floribus longioribus, calycibus brevibus pilosis, dentibus subulatis. *tenuifolia.*
   On the banks of Clarck's river. *M. Lewis.* ♃. July. *v. s. in Herb. Lewis.* About a foot high; flowers deep yellow; floral leaves tinged with purple.
4. B. foliis alternis linearibus inciso-pinnatifidis, laciniis linearibus, bracteis dilatatis plerumque trifidis floribus longioribus, dentibus calycis rotundato-obtusis.—*Willd. sp. pl.* 3. *p.* 185. *coccinea.*
   Icon. *Pluk. alm. t.* 102. *f.* 5. *Moris. hist.* 3. *s.* 11. *t.* 13. *f.* 28.

α. B. bracteis coccineis. coccinea.
β. B. bracteis lutescentibus. *Rarior.* pallens.
   In wet meadows: Canada to Florida. ♂. ♃. June, July. *v. v.* Flowers yellow, involved in scarlet floral leaves, which give this plant a very elegant appearance.

alpina. 5. B. foliis oppositis ovatis subcordatis obtuse-serratis rugosis, antheris hirsutis.—*Willd. sp. pl.* 3. *p.* 187.
Icon. *Fl. dan.* 43. *Engl. bot.* 361. *Schkuhr handb.* 168.
In Labrador. *Colmaster.* ♃. July. *v. s. in Herb. Dickson.* Not above six inches high; floral leaves similar to the stem leaves, purple; flowers long, of a fine deep purple.

Gymnandra. 6. B. foliis suboppositis ovatis crenatis, binis radicalibus petiolatis, spica oblonga, verticillis bracteatis coarctatis. —*Willd. sp. pl.* 3. *p.* 186.
Gymnandra borealis. *Pall. itin.* 3. *t. A. f.* 1.
Lagotis glauca. *Gært. act. petrop.* 14. *t.* 18.
On the mouth of the river Columbia. *M. Lewis.* In Unalashka. *Herb. Pallas.* ♃. *v. s. in Herb. Lewis. nec non Lambert.* About a span high; flowers pale blue. This singular plant grows on the most unfertile rocks, exposed to the most rigorous cold winds, in places where vegetation seems entirely to cease.

516. EUPHRASIA. *Gen. pl.* 998.

officinalis. 1. E. foliis ovatis obtuse-dentatis, laciniis labii corollæ inferioris emarginatis. *Willd. sp. pl.* 3. *p.* 193.
Icon. *Fl. dan.* 1037. *Engl. bot.* 1416. *Sabb. hort.* 3. *t.* 9.
In Canada. *Michaux.* ⊙. July—Sept. *v. s.* Flowers white, with purple veins.

latifolia. 2. E. foliis ovatis dentato-palmatis, floribus spicatis, corollis tubulosis, laciniis labii inferioris obtusis. *Willd. sp. pl.* 3. *p.* 192.
Icon. *Sabb. hort.* 3. *t.* 7. *Moris. hist.* 3. *s.* 11. *t.* 24. *f.* 8.
In Labrador. *Colmaster.* ⊙. July. *v. s. in Herb. Dickson.* Flowers smaller, pale purple.

517. MELAMPYRUM. *Gen. pl.* 999.

lineare. 1. M. gracile; foliis inferioribus linearibus integris, floralibus lanceolatis postice dentatis, floribus axillaribus distinctis.—*Lam. encycl.* 4. *p.* 23.
M. americanum. *Mich. fl. amer.* 2. *p.* 16.
In shady woods, particularly on the mountains: Canada to Carolina. ⊙. July, Aug. *v. v.* Flowers yellow.

518. OBOLARIA. *Gen. pl.* 1044.

1. O. caule simplici, foliis oblongis truncatis carnosis subtus purpureis, floribus axillaribus solitariis sessilibus.—*Willd. sp. pl.* 3. *p.* 346. *virginica.*
Icon. *Pluk alm. t.* 209. *f.* 6. *Moris. hist.* 3. *s.* 12. *t.* 16. *f.* 23.
In shady rocky places: Pensylvania to Virginia; rare. Not above three inches high; flowers pale red, in a spike, supported by purple bracteas.

519. OROBANCHE. *Gen. pl.* 1045.

1. O. caule ramoso, floribus alternis distantibus, corollis deciduis 4-dentatis.—*Willd. sp. pl.* 3. *p.* 351. *virginiana.*
Icon. *Moris. hist.* 3. *s.* 12. *t.* 16. *f.* 9.
Parasitic on the roots of beech-trees: Canada to Georgia. ♃. July—Sept. *v. v.* Flowers small, purple. This plant is known by the name of *Cancer-root,* being thought to be a never-failing remedy in cancerous ulcers.

2. O. caule simplicissimo squamis ovali-lanceolatis imbricatis obtecto, spica terminali glabra, corollis recurvatis, staminibus exertis.—*Willd. sp. pl.* 3. *p.* 351. *americana.*
Parasitic on the roots of trees: Pensylvania to Carolina. ♃. July. *v. v.* About a span high, of a brownish-yellow colour.

3. O. scapis nudis unifloris, calyce ebracteato, corolla recurvata.—*Willd. sp. pl.* 3. *p.* 352. *uniflora.*
Icon. *Pluk. mant. t.* 348. *f.* 3.
Parasitic on the roots of different plants and shrubs: Canada to Virginia. ♃. June, July. *v. v.* Not above two or three inches high, of a tan colour; flowers pale purple.

XIV. TETRADYNAMIA.

I. SILICULOSA.

* *Silicula integra.*

520. DRABA. *Silicula* integra, ovali-oblonga, valvis planiusculis dissepimento parallelis.
521. MYAGRUM. *Silicula* suberosa, evalvis, loculis fertilibus atque spuriis, sibi mutuo superimpositis. *Stylus* persistens.
522. CAKILE. *Silicula* lanceolata, subtetragona, medio utrinque dente instructa, biarticulata, ad articulos secedens: articulis monospermis, evalvibus.

** *Silicula apice emarginata.*

523. ALYSSUM. *Filamenta* quædam introrsum denticulo notata. *Silicula* emarginata, plerumque pilosa.
524. CORONOPUS. *Silicula* reniformis, compressa, corrugata, loculis evalvibus monospermis.
525. LEPIDIUM. *Silicula* emarginata, cordata, polysperma: valvulis carinatis dissepimento contrariis.
526. THLASPI. *Silicula* emarginata, obcordata, polysperma: valvulis navicularibus, marginato-carinatis.

II. SILIQUOSA.

* *Calyx clausus, foliolis longitudinaliter conniventibus.*

527. ERYSIMUM. *Siliqua* columnaris, tetraëdra.
528. CHEIRANTHUS. *Silicula* compressa. *Stigma* bilobum. *Germen* utrinque denticulo glandulato.
529. HESPERIS. *Petala* oblique flexa. *Siliqua* stricta. *Stigma* basi bifurca apice connivente. *Glandula* intra stamina breviora.
530. ARABIS. *Siliquæ* compressæ. *Glandulæ* nectari-

feræ 4. singula intra calycis foliola, squamæ instar reflexæ.

531. TURRITIS. *Siliqua* longissima, angulata, striata. *Cal.* connivens, erectus. *Petala* erecta.

532. BRASSICA. *Cal.* erectus, connivens. *Dissepimentum* prominens. *Sem.* globosa. *Glandula* inter stamina breviora et calycem. *Siliqua* teres, rostrata.

533. DENTARIA. *Siliqua* elastice dissiliens, valvulis revolutis. *Dissepimentum* subfungosum. *Stigma* emarginatum. *Cal.* connivens.

** *Calyx hians, foliolis superne distantibus.*

534. CARDAMINE. *Siliqua* elastice dissiliens, valvulis revolutis. *Stigma* integrum.

535. SISYMBRIUM. *Siliqua* rostro brevi tereti dehiscens, valvulis rectiusculis. *Corolla* patens.

536. CLEOME. *Glandulæ* nectariferæ 3. ad singulum sinum calycis singulæ, excepto infimo. *Petala* omnia adscendentia. *Germen* stipitatum. *Siliqua* 1-locularis, 2-valvis.

I. *SILICULOSA.*

520. DRABA. *Gen. pl.* 1076.

1. D. scapo nudo, foliis oblongis acutis subserratis hirtis, petalis bifidis, stigmate sessili.—*Willd. sp. pl.* 3. *p.* 426. *verna.*

Icon. *Fl. dan.* 983. *Engl. bot.* 586.

In cultivated grounds and old fields: Canada to Virginia. ☉. March—May. *v. v.* All the species of this genus are small plants with white flowers.

2. D. scapo nudo, foliis ovalibus acutis hirsutissimis, siliculis longo-linearibus glabris approximatis.—*Mich. fl. amer.* 2. *p.* 28. *hispidula.*

* D. caroliniana. *Walt. fl. car.* 174.

In sandy fields: Virginia and Carolina, and on the banks of the Missouri. ☉. April—June. *v. v.*

3. D. scapo subunifolio adscendente, foliis lanceolatis integerrimis subtomentosis: pilis stellatis, petalis retusis. —*Willd. sp. pl.* 3. *p.* 427. *nivalis.*

Icon. *Fl. dan.* 142. *Liljeblad nov. act. ups.* 6. *t.* 2. *f.* 2.
In Labrador. *Colmaster.* ⊙. May. *v. s. in Herb. Dickson.*

glabella. 4. D. scapo subbifolio erecto, foliis spathulato-lanceolatis glabriusculis, racemo densifloro, siliculis ovato-lanceolatis acutis.
In Hudson's Bay. ⊙. *v. s. in Herb. Banks.*

incana. 5. D. foliis caulinis numerosis incanis, pilis implexis stellatis, siliculis oblongis obliquis stylo brevissimo mucronatis.—*Willd. sp. pl.* 3. *p.* 430.
Icon. *Fl. dan.* 130. *Engl. bot.* 388. *Pluk. alm. t.* 42. *f.* 1.
In Labrador. ♂. May, June. *v. s. in Herb. Lambert.*

arabisans. 6. D. caule folioso subramoso, foliis radicalibus cuneato-lanceolatis, caulinis lanceolatis, omnibus acutis divaricato-dentatis, siliculis stylo acuminatis.—*Mich. fl. amer.* 2. *p.* 28.
On rocks, near the banks of rivers: Canada to Virginia. ♂. May, June. *v. v.* I collected specimens on the rocks near Harper's Ferry, Virginia.

521. MYAGRUM. *Gen. pl.* 1069.

argenteum. 1. M. undique cano-tomentosum; siliculis oblongis pedunculatis tomentosis, foliis lineari-spathulatis sensim attenuatis integerrimis, petalis obovatis.
On the banks of the Missouri. ♂. *v. s.* Flowers yellow; the whole of the plant has some resemblance to *Alyssum saxatile.*

522. CAKILE. *Gært. sem.* 2. *p.* 287.

maritima. 1. C. foliis pinnatis, pinnis linearibus subdentatis. *Willd. sp. pl.* 3. *p.* 416.
Bunias Cakile. *Sp. pl.* 936.
Icon. *Engl. bot.* 231.
On the sea-coast: Canada to Virginia. ⊙. July, Aug. *v. v.* Flowers purple.

523. ALYSSUM. *Gen. pl.* 1081.

hyperboreum. 1. A. caulibus herbaceis, foliis incanis dentatis, staminibus 4. bifurcatis. *Willd. sp. pl.* 3. *p.* 463.
Icon. *Krascheninn. act. petr.* 1747. *t.* 15. *f.* 1.
On the north-west coast. ♃.

524. CORONOPUS. *Gært. sem. t.* 142.

1. C. siliculis integris cristato-muricatis, stylo porrecto, corymbis paucifloris. *Smith fl. brit.* 2. *p.* 690. *Ruellii.*
Cochlearia Coronopus. *Willd. sp. pl.* 3. *p.* 450.
Icon. *Fl. dan.* 202. *Engl. bot.* 1660.
On road-sides: Virginia and Carolina. ☉. June—Aug. *v. v.* Flowers very small, white.

2. C. siliculis emarginatis didymis reticulato-rugosis, stylo obsoleto, corymbis multifloris. *Smith fl. brit.* 2. *p.* 691. *didyma.*
Cochlearia humifusa. *Mich. fl. amer.* 2. *p.* 27.
Lepidium didymum *Willd. sp. pl.* 3. *p.* 439.
Lepidium anglicum. *Huds. angl.* 280.
Biscutella apetala *Walt fl. car.* 174.
In cultivated grounds of Virginia and Carolina. ☉. June—Aug. *v. v.* Smaller than the foregoing species; both have pinnated leaves.

525. LEPIDIUM. *Gen. pl.* 1077.

1. L. foliis radicalibus pinnatifidis, caulinis lineari-lanceolatis subinciso-serratis, floribus 4-petalis diandris, siliculis lentiformibus.—*Willd. sp. pl.* 3. *p.* 440. *virginicum.*
Icon. *Sloan. jam.* 1. *t.* 123. *f.* 3. *Moris. hist.* 2. *s.* 3. *t.* 21. *f.* 2.
In dry fields and orchards: New York to Carolina. ♂. June—Aug. *v. v.* About a foot high; flowers not conspicuous.

526. THLASPI. *Gen. pl.* 1078.

1. T. siliculis orbiculatis compressis lævibus, foliis oblongis dentatis glabris.—*Willd. sp. pl.* 3. *p.* 442. *arvense.*
Icon. *Fl. dan.* 793. *Engl. bot.* 1659.
In stony fields: New York and Pensylvania; rare. ☉. June, July. *v. v.*

2. T. hirsutum, siliculis deltoideo-obcordatis, foliis radicalibus pinnatifidis.—*Willd. sp. pl.* 3. *p.* 447. *Bursa pastoris.*
Icon. *Engl. bot* 1485. *Schkuhr handb* 180.
A common weed, every where to be found in cultivated grounds. ☉. April—Sept. *v. v.*

II. *SILIQUOSA.*

527. ERYSIMUM. *Gen. pl.* 1090.

officinale. 1. E. siliquis spicæ adpressis, foliis uncinatis. *Willd. sp. pl.* 3. *p.* 509.
Icon. *Fl. dan.* 560. *Schkuhr handb.* 183.
On road sides, frequent: Canada to Carolina. ⊙. June, July. *v. v.* Flowers small, yellow.

cheiranthoides. 2. E. siliquis erectis, pedicellis fructiferis patentibus, foliis lanceolatis subintegerrimis.—*Willd. sp. pl.* 3. *p.* 511.
Icon. *Fl. dan.* 731 & 923. *Engl. bot.* 942. *Jacq. fl. austr.* 23.
In old fields and on road sides: Virginia; rare. ⊙. June, July. *v. v.* Flowers yellow.

lanceolatum. 3. E. foliis lanceolatis inferioribus dentatis, unguibus calyce longioribus, laminis orbiculato-obovatis, stigmate sessili. *Ait. kew. ed.* 2. *t.* 4. *p.* 116.
Cheiranthus erysimoides. *Willd. sp. pl.* 3. *p.* 514.
Icon. *Jacq. fl. austr.* 74.
On the banks of the Missouri. ♂. June. *v. s.*

528. CHEIRANTHUS. *Gen. pl.* 1091.

Pallasii. 1. C. caule simplici tereti glabriusculo, foliis glabris lanceolato-linearibus attenuatis repando-dentatis.
On the north-west coast. *Pallas.* ♂. July. *v. s. in Herb. Lambert.* Flowers dark red, the size of *C. Cheiri.*

529. HESPERIS. *Gen. pl.* 1093.

pinnatifida. 1. H. foliis argute serratis: superioribus lanceolatis, inferioribus inferne pinnatifidis, siliquis brevi-pedunculatis breviusculis. *Mich. fl. amer.* 2. *p.* 31.
In shady woods: Kentucky and Tennassee. ♂. June. *v. v.*

530. ARABIS. *Gen. pl.* 1049.

alpina. 1. A. foliis oblongo-lanceolatis amplexicaulibus acute dentatis. *Willd. sp. pl.* 3. *p.* 534.
Icon. *Bot. mag.* 226. *Fl. dan.* 62.
In Labrador. *Colmaster.* ♃. May, June. *v. s. in Herb. Dickson.* Flowers, as all the following, white.

2. A. foliis radicalibus oblongis petiolatis, caulinis lanceolatis sessilibus, caule erecto basi hirto, petalis calyce duplo longioribus. *Willd. sp. pl.* 3. *p.* 535. *thaliana.*
Icon. *Schkuhr handb.* 185. *Curt. fl. lond.* 2. *t.* 49.
In dry sandy fields and on old walls: New England to Virginia. ⊙. April—July. *v. v.*

3. A. foliis subrotundis integerrimis hirsutis, surculis reptantibus. *Willd. sp. pl.* 3. *p.* 536. *reptans.*
Icon. *Pluk. alm. t.* 51. *f.* 5.
In sandy fields: Pensylvania to Virginia. ♃. June, July. *v. v.*

4. A. foliis glabris, radicalibus lyratis, caulinis linearibus. *Willd. sp. pl.* 3. *p.* 538. *lyrata.*
In fields and on dry hills: Canada to Pensylvania. ⊙. March—May. *v. v.*

5. A. foliis dentatis obtusis hispidis, radicalibus sublyratis, caulibus hispidis, petalis erectis.—*Willd. sp. pl.* 3. *p.* 539. *stricta.*
A. hispida. *Ait. kew.* 2. *p.* 400.
Icon. *Engl. bot.* 614.
In Labrador. *Colmaster.* ♃. May. *v. s. in Herb. Dickson.*

6. A. foliis lanceolatis utrinque angustatis remote dentatis hastato-sessilibus, siliquis pendulis ancipitibus falcatis.—*Mich. fl. amer.* 2. *p.* 31. *falcata.*
A. canadensis. *Willd. sp. pl.* 3. *p.* 540.
Turritis foliis lanceolatis dentatis, radicalibus maximis, siliquis compressis falcatis. *Gron. fl. virg.* 1. *p.* 77.
Icon. *Pluk. alm. t.* 86 *f.* 8.
In rocky shady situations: Canada to Virginia. ♃. May, June. *v. v.*; *v. s. in Herb. Gronov.* From two to five feet high.

7. A. foliis glabris rhomboideis repando-obsolete-dentatis, infimis longe petiolatis, radice tuberosa.—*Pers. syn.* 2. *p.* 204. *rhomboidea.*
A. bulbosa. *Muhlb. in litt.*
A. amara. *Herb. Banks.*
A. foliis ovatis denticulatis glabris. *Gronov. virg.* 99.
On the borders of rivulets and springs. ♃. March—May. *v. v.* This is one of the early spring flowers; the taste resembling spring cresses. It would be desirable to have it introduced into the gardens for that purpose, as it will grow in any soil.

531. TURRITIS. *Gen. pl.* 1095.

lævigata. 1. T. foliis glabris, radicalibus obovatis serratis, caulinis lanceolato-linearibus integerrimis amplexicaulibus. *Willd. sp. pl.* 3. *p.* 543.

On rocks: Pensylvania to Virginia; rare. ♂. May, June. *v. v.* Very smooth and glaucous, about a foot high.

ovata. 2. T. pubescens; foliis radicalibus petiolatis ovatis dentatis obtusis, caulinis amplexicaulibus oblongis serratis acutis.

On rocks: Pensylvania to Virginia. ♂. May, June. Resembles *T. hirsuta.*

532. BRASSICA. *Gen. pl.* 1096.

Napus. 1. B. radice caulescente fusiformi, foliis lævibus, superioribus cordato-lanceolatis amplexicaulibus, inferioribus lyratis dentatis. *Willd. sp. pl.* 3. *p.* 547.

Icon. *Engl. bot.* 2146.

Rape frequently is found wild, but is of European origin. ♂. May, June. *v. v.*

Rapa. 2. B. radice caulescente orbiculari depressa carnosa, foliis radicalibus lyratis scabris, caulinis integerrimis lævibus. *Willd. sp. pl.* 3. *p.* 548.

Icon. *Engl. bot.* 2176.

Turnips are likewise apparently indigenous.

533. DENTARIA. *Gen. pl.* 1087.

laciniata. 1. D. foliis ternis ternatis, foliolis tripartitis lineari-oblongis incisis dentatis, radicis tuberibus moniliformibus.—*Willd. sp. pl.* 3. *p.* 479.

D. concatenata. *Mich. fl. amer.* 2. *p.* 30.

In shady mountainous situations: New England to Carolina. ♃. May, June. *v. v.* Flowers large, pale purple.

diphylla. 2. D. caulibus approximate diphyllis, foliolis ternis ovato-oblongis inæqualiter inciso-dentatis, radice dentata.—*Mich. fl. amer.* 2. *p.* 30.

Icon. *Bot. mag.* 1465.

In shady beech-woods, on high mountains: Pensylvania to Carolina. ♃. May, June. *v. v.* Flowers pale red, with a tinge of yellow. The roots of this plant

are of a pungent mustard-like taste, and are used by the natives instead of mustard; in the mountains it is generally known by the name of *Pepper-root.* The figure in the Botanical Magazine is taken from an individual plant, in which the radical leaf is bilobated, which is not always the case.

3. D. caule distanter diphyllo, foliis sessilibus ternatis, foliolis lineari-ellipticis integris, petalis cuneatis. *tenella.*
On the banks of the Columbia. ♃. April. *v. s. in Herb. Lewis.* Very slender; leaves small; flowers purple.

534. CARDAMINE. *Gen. pl.* 1088.

1. C. foliis simplicibus suborbiculatis integriusculis, caulibus simpliciusculis debiliter procumbentibus. *Mich. fl. amer.* 2. *p.* 30. *rotundifolia.*
On rocks, in the rivulets of the high mountains of Virginia and Carolina. ♃. May, June. *v. v.* The flowers of all the following species are white and small.

2. C. caule nudo, foliis radicalibus lanceolatis inciso-dentatis glabris, siliquis turgidis subarticulatis. *articulata.*
On the north-west coast. *Nelson.* ♃. *v. s. in Herb. Banks.* A doubtful species.

3. C. parvula; caulibus decumbentibus, foliis radicalibus spathulatis pubescentibus, caulinis lineari-cuneatis integris dentatisque, siliquis divaricato-laxis.—*Mich. fl. amer.* 2. *p.* 29. *spathulata.*
On high mountains of Carolina. *Michaux.* +.

4. C. pusilla, acaulis; foliis obtuse lyrato-pinnatifidis, pedunculis radicalibus unifloris. *Mich. fl. amer.* 2. *p.* 29. *uniflora.*
On rocks near Knoxville, Kentucky. *Michaux.* +.

5. C. pusilla, erecta, ramosa; foliis omnibus sublyrato-pinnatifidis, siliquis brevibus linearibus acuminatis teretibus, brevissime pedicellatis. *Mich. fl. amer.* 2. *p.* 29. *teres.*
In overflowed places: New England to New Jersey. ♃. June, July. *v. v.*

6. C. glabra, erecta; foliis pinnatis, foliolis lanceolatis subauriculatis, siliquis longis stricte erectis.—*Willd. sp. pl.* 3. *p.* 488. *virginica.*
Icon. *Pluk. alm. t.* 101. *f.* 4. *Petiv. gaz. t.* 105. *f.* 18.
In low meadows: Canada to Carolina. ♃. May, June. *v. v.*

pensylvanica. 7. C. glabra, ramosa; foliis pinnatis, foliolis subrotundo-oblongis obtusis angulato-dentatis, siliquis angustis erectis.—*Willd. sp. pl.* 3. *p.* 486.

In low meadows: New York to Pensylvania. ♃. June. *v. v.*

pratensis. 8. C. glabra, erecta, simplex; foliis pinnatis, foliolis radicalibus subrotundis dentatis, caulinis lanceolatis subintegris, racemis subcorymbosis.—*Willd. sp. pl.* 3. *p.* 487.

Icon. *Fl. dan.* 1039. *Engl. bot.* 776.

In meadows: Hudson's Bay. ♃. May. *v. s. in Herb. Banks.* Flowers large, reddish purple.

multifida. 9. C. pubescens, ramosa; foliis interrupte pinnatis, pinnis bipinnatifidis, laciniis rotundatis incisis, siliquis brevibus.—*Herb. Banks.*

In Florida. *Bartram.* ♃. *v. s. in Herb. Banks.*

535. SISYMBRIUM. *Gen. pl.* 1089.

Nasturtium. 1. S. siliquis declinatis brevibus, foliis pinnatis, foliolis subrotundis repando-pauci-dentatis.—*Willd. sp. pl.* 3. *p.* 489.

Icon. *Fl. dan.* 690. *Schkuhr handb.* 187.

In rivulets and springs: New England to Virginia. ♃. June, July. *v. v.* *Water-Cress* is found in most countries; I observed it in abundance in the rivulets on the high mountains of the island of Dominica.

palustre. 2. S. siliquis declinatis oblongo-ovatis, foliis pinnatifidis serratis, petalis calyce brevioribus. *Willd. sp. pl.* 3. *p.* 490.

S. terrestre. *Smith fl. brit.* 2 *p.* 701.

Icon. *Fl. dan.* 409. *Schkuhr handb.* 187.

In inundated and low grounds: Canada to Carolina. ☉. July, Aug. *v. v.* Flowers yellow.

amphibium. 3. S. siliquis declinatis oblongo-ovatis, foliis oblongo-lanceolatis pinnatifidisve serratis, petalis calyce longioribus. *Willd. sp. pl.* 3. *p.* 491.

Icon. *Fl. dan.* 984.

In ponds and ditches: Pensylvania to Virginia. ♃. June, Aug. *v. v.* Flowers yellow.

Sophia. 4. S. foliis pinnato-decompositis subpilosis, petalis calyce minoribus. *Willd. sp. pl.* 3. *p.* 500.

Icon. *Fl. dan.* 528. *Engl. bot.* 963.

On road sides: Virginia; rare. ☉. July, Aug. *v. v.* Flowers very small, pale yellow.

536. CLEOME. *Gen. pl.* 1099.

1. C. floribus gynandris, foliis quinatis, caule inermi. *Willd. sp. pl.* 3. *p.* 564. *pentaphylla.*
Icon. *Jacq. hort. vind.* 24. *Rheed. mal.* 9. *t.* 24.
In cultivated grounds: Pensylvania and Virginia; rare. ☉. July. *v. v.* Flowers pale red, of a singular structure.

2. C. glabra; floribus hexandris, foliis ternatis, foliolis lanceolatis tenuissime serrulatis, racemo elongato, bracteis linearibus. *serrulata.*
On the banks of the Missouri. ☉. Aug. *v. s. in Herb. Lewis.* Flowers pale purple or white.

3. C. glabrum; floribus dodecandris, foliis ternatis ellipticis, floribus axillaribus solitariis.—*Willd. sp. pl.* 3. *p.* 566. *dodecandra.*
Icon. *Sloan. hist.* 1. *t.* 124. *f.* 1.
On the banks of the Mississippi. ☉. July. *v. v.* Flowers purple.

XV. MONADELPHIA.

I. TRIANDRIA.

537. PHYLLANTHUS. *Cal.* 6-partitus, campanulatus. *Cor.* 0. *Styli* 3. bifidi. *Caps.* 3-locularis. *Sem.* solitaria. *Monoicus.*
538. MELOTHRIA. *Cal.* 5-dentatus. *Cor.* campanulata. *Stigm.* 3. *Bacca* 3-locularis, polysperma.
539. MOMORDICA. *Cal.* 5-fidus. *Cor.* 5-partita. *Styl.* 3-fidus. *Pepo* sicca elastice dissiliens. *Sem.* compressa. *Monoica.*
540. SICYOS. *Cal.* 5-dentatus. *Cor.* 5-partita. *Styl.* 3-fidus. *Pepo* monosperma. *Monoica.*

II. PENTANDRIA.

541. PASSIFLORA. *Cal.* 5-partitus. *Pet.* 5. calyci inserta. *Nectar.* corona filamentosa. *Styli* 3. *Pepo* pedicellata.
542. IRESINE. *Cal.* 2-phyllus. *Pet.* 5. *Nectar.* 5–6–7. *Stigm.* 2. sessilia. *Caps.* seminibus tomentosis. *Dioica.*
543. ILLECEBRUM. *Cal.* 5-phyllus, cartilagineus. *Cor.* 0. *Squamulæ* 5. basi in tubum connatæ. *Stigma* 2-fidum. *Caps.* 1-sperma, calyce tecta.
544. GALAX. *Cal.* 5-partitus. *Pet.* 5. imo staminum affixa. *Urceolus* 10-fidus, laciniis 5. alternis brevioribus, antheriferis. *Stigm.* 3-lobum. *Caps.* 3-locularis, 3-valvis, polysperma.
545. LOBELIA. *Cal.* 5-fidus. *Cor.* 1-petala, irregularis, sæpius fissa. *Caps.* infera, 2–3-locularis.

III. DECANDRIA.

546. GERANIUM. *Cal.* 5-phyllus. *Pet.* 5. *Stam.* 10. *Stigm.* 5. *Arilli* 5. monospermi, aristati.

IV. POLYANDRIA.

547. HALESIA. *Cal.* 4-dentatus, superus. *Cor.* 4-fida. *Stam.* 8—12. *Nux* 4-angularis, 2-sperma.
548. STYRAX. *Cal.* subinteger, inferus. *Cor.* infundibuliformis, 5—7-partita. *Stam.* 8—16. *Drupa* 1-2-sperma, coriacea.
549. HOPEA. *Cal.* 5-fidus, superus. *Cor.* 5-petala. *Stam.* multa, connata in 5. corpora. *Styl.* 1. *Drupa* nuce 3-loculari.
550. GORDONIA. *Cal.* 5-phyllus. *Pet.* 5. basi connata. *Styl.* 5-gonus, stigmate 5-fido. *Caps.* 5-locularis. *Recept.* centrale, columnare. *Sem.* bina, ala foliacea.
551. STEWARTIA. *Cal.* 5-partitus. *Pet.* 5. *Styl.* 5. connati s. liberi. *Stigm.* capitatum, sub-5-lobum. *Caps.* 5-locularis, 5-valvis, valvulis medio septiferis, loculis 1–2-spermis. *Sem.* 1–2. ossea.
552. SIDA. *Cal.* simplex, angulatus. *Styl.* multipartitus. *Caps.* plures, 1-spermæ.
553. CRISTARIA. *Cal.* simplex, 5-fidus. *Pet.* 5. unguiculata. *Styli* plures. *Fructus* orbiculato-depressus, pellicula tectus, dehiscens in *Arillos* bialatos.
554. MALVA. *Cal.* duplex : exterior 3-phyllus. *Pet.* 5. *Caps.* plurimæ, evalves, 1-spermæ.
555. MALOPE. *Cal.* duplex : exterior 3-phyllus. *Caps.* absque ordine glomeratæ, monospermæ.
556. HIBISCUS. *Cal.* duplex : exterior polyphyllus. *Pet.* 5. *Caps.* 5-locularis, polysperma.

I. *TRIANDRIA.*

537. PHYLLANTHUS. *Gen. pl.* 1412.

1. P. foliis obovatis obtusiusculis, floribus geminis axillaribus pedicellatis, caule erecto ramoso tereti. *Willd. sp. pl.* 4. *p.* 574. *obovatus.*

P. carolinensis. *Walt. fl. car.* 228. *Mich. fl. amer.* 2. *p.* 209.

In gravelly soil, on the banks of rivers: Pensylvania to Georgia. ⊙. June, July. *v. v.* About a span or more high; the branches grow regularly in two rows.

538. MELOTHRIA. *Gen. pl.* 68.

pendula. 1. M. foliis subreniformibus lobato-angulosis: lobo impari cæteris æquali, bacca cylindraceo-ovata. *Mich. fl. amer.* 2. *p.* 217. *Willd. sp. pl.* 1. *p.* 189.

Icon. *Pluk. alm. t.* 85. *f.* 5.

In sandy, wet places, particularly on the islands of large rivers: Virginia to Georgia. ⊙. June. *v. v.* Flowers small, yellow. Fruit the size of a pea, black.

539. MOMORDICA. *Gen. pl.* 1477.

echinata. 1. M. pomis tetraspermis subrotundis setoso-echinatis, foliis cordatis 5-lobo-angulatis acuminatis integerrimis glabris. *Willd. sp. pl.* 4. *p.* 605.

Sicyos lobata. *Mich. fl. amer.* 2. *p.* 217.

In the western parts of the United States: On the banks of the Ohio and Mississippi. ⊙. July. *v. v.* Fruit the size of a gooseberry.

540. SICYOS. *Gen. pl.* 1481.

angulata. 1. S. foliis angulo obtuso cordatis 5-angularibus denticulatis scabris, fructibus capitatis, hispidis.—*Willd. sp. pl.* 4. *p.* 625.

Icon. *Dill. elth. t.* 51. *f.* 59. *Herm. parad. t.* 133.

On the banks of rivers: Canada to Carolina. ⊙. June, July. *v. v.*

II. *PENTANDRIA.*

541. PASSIFLORA. *Gen. pl.* 509.

lutea. 1. P. foliis cordatis trilobis obtusis glabris, petiolis eglandulosis, pedunculis axillaribus geminis, petalis calyce duplo angustioribus. *Willd. sp. pl.* 3. *p.* 615.

Icon. *Cavan. diss.* 10. *t.* 267. *Jacq. ic.* 3. *t.* 607.

On the banks of rivers, in shady rocky situations: Virginia to Florida. ♃. June—Aug. *v. v.* Flowers small, greenish-yellow.

2. P. foliis peltatis profunde trilobis glabris, lobis lineari-lanceolatis divaricatis, petiolis biglandulosis, pedunculis solitariis axillaribus, floribus apetalis. *Willd. sp. pl.* 3. *p.* 617. *peltata.*

Icon. *Cavan. diss.* 10. *t.* 274. *Pluk. alm. t.* 210. *f.* 4.

In Virginia and Georgia. ♄. *v. s.* Flowers of a middle size.

3. P. foliis trilobis serratis, lobis oblongis acutis, petiolis biglandulosis, involucro triphyllo, foliolis lanceolatis glanduloso-dentatis, filis coronæ corolla longioribus. *Willd. sp. pl.* 3. *p.* 621. *incarnata.*

Icon. *Cavan. diss.* 10. 293. *Hern. mex. t.* 888. *Rob. ic.* 193.

On the banks of rivers of Virginia and Carolina. ♃. June—Aug. *v. v.* Flowers beautiful, blue and variegated.

542. IRESINE. *Gen. pl.* 1519.

1. I. foliis punctato-scabris, inferioribus lato-ovalibus, superioribus ovato-lanceolatis, panicula ramosa conferta, caule sulcato.—*Willd. sp. pl.* 4. *p.* 765. *celosioides.*

In overflowed grounds, on the banks of rivers: Virginia to Florida. ☉. July, Aug. *v. v.* Flowers exceeding small.

543. ILLECEBRUM. *Gen. pl.* 407.

1. I. caulibus repentibus hirsutis, foliis lato-lanceolatis petiolatis, capitulis orbiculatis nudis sessilibus.—*Willd. sp. pl.* 1. *p.* 1208. *polygonoides.*

Gomphrena polygonoides. *Sp. pl.* 225.

I. Achyrantha. *Walt. fl. car.* 103.

Icon. *Sloan. hist.* 1. *t.* 86. *f.* 2.

On the sea-coast: Virginia to Carolina; plentifully about Charlestown, South Carolina. ♃. June—Aug. *v. v.* A low creeping plant, with small flowers, in spiny clusters.

2. I. caulibus repentibus glabris, foliis lato-lanceolatis petiolatis, capitulis orbiculatis pubescentibus. *Willd. sp. pl.* 1. *p.* 1208. *ficoideum.*

Achyranthes ficoidea. *Pers. syn.* 1. *p.* 259.

Icon. *Jacq. amer. t.* 60. *f.* 4.
On the sea-coast: Carolina to Florida. ♃. July, Aug. *v. v.* Resembles the former one.

vermiculatum. 3. I. glabrum; caulibus repentibus, foliis subteretibus carnosis, capitulis solitariis terminalibus oblongis.—*Sp. pl.* 300.
Gomphrena vermicularis. *Willd. sp. pl.* 1. *p.* 1322.
Icon. *Herm. parad. t.* 15. *Pluk. alm. t.* 75. *f.* 9.
On the sea-coast: Carolina to Florida. ♃. June—Aug. *v. s.*

dichotomum. 4. I. caulibus suffruticosis diffusis, foliis linearibus planis acutis margine scabris, cyma dichotoma.—*Willd. sp. pl.* 1. *p.* 1196.
In Virginia. ♄. +. I never saw this plant either living or in a dried state.

544. GALAX. *Gen. pl.* 382.

Erythrorhiza. *Mich. fl. amer.* 2. *p.* 34.

rotundifolia. 1. G. glaberrima; foliis orbiculato-reniformibus dentatis, spica longissima.
Galax aphylla. *Willd. sp. pl.* 1. *p.* 1146.
Blandfordia cordata. *Bot. rep.* 343.
Solanandra cordifolia. *Vent. malm.* 69.
Erythrorhiza rotundifolia. *Mich. fl. amer.* 2. *p.* 36.
Icon. *Mich. fl. amer.* 2. *t.* 36. *Vent. l. c. Bot. rep.* 343.
On the side of shady hills, near rivulets, in the high mountains of Virginia and Carolina. ♃. May, June. *v. v.* Flowers white, in long and close spikes. In the Virginia mountains this plant is known by the name of *Carpenter's-leaf*, being used in healing all kinds of wounds and cuts.

545. LOBELIA. *Gen. pl.* 1363.

Dortmanna. 1. L. foliis radicalibus linearibus recurvis fistulosis bilocularibus integerrimis, scapo simplici subnudo racemoso, floribus remotis pendulis.—*Willd. sp. pl.* 1. *p.* 938.
Icon. *Fl. dan.* 39. *Engl. bot.* 140.
On Hudson's Bay. *Michaux.* ♃. July, Aug. *v. s.* Flowers light blue.

Kalmii. 2. L. tenuis, erecta, simpliciuscula; foliis radicalibus spathulatis, caulinis linearibus tenuissime denticulatis, floribus racemosis alternis remotis pedicellatis.—*Willd. sp. pl.* 1. *p.* 939.

In low sandy fields and meadows: Canada to Carolina. ♂. ⊙. July, Aug. *v. v.* Flowers small, blue.

3. L. erecta, simplex, subpubescens; foliis oblongis obtusiusculis, radicalibus integerrimis, caulinis superne denticulatis, racemo virgato, bracteis subulatis.—*Mich. fl. amer.* 2. *p.* 153. *Claytoniana.*

Rapuntium foliis villosis mollibus, &c. *Gron. virg.* 135.

L. spicata. *Lam. encycl.* 3. *p.* 587.

L. goodenioides. *Willd. hort. berol.* 30. cum icone.

In shady woods and on grassy hills: New York to Carolina. ♃. July—Sept. *v. v.* About eighteen inches high; flowers pale blue, small.

4. L. erecta, glaberrima; foliis lato-lanceolatis serratis, spica multiflora secunda, calycis laciniis integerrimis, corollæ laciniis inferioribus ovalibus acutis.—*Mich. fl. amer.* 2. *p.* 153. *amœna.*

On the mountains of Virginia and Carolina. ♃. July, Aug. *v. v.* Flowers of a beautiful sky-blue. From two to three feet high.

5. L. erecta, subramosa, subpubescens, lucida; foliis lanceolatis glanduloso-serrulatis subcarnosis, floribus racemosis brevi-pedunculatis, calycis laciniis revolutis dentatis.—*Walt. fl. car.* 218. *glandulosa.*

L. crassiuscula. *Mich. fl. amer.* 2. *p.* 152.

In pine-swamps: Virginia to Florida. ♃. July, Aug. *v. v.* From eight inches to a foot high; flowers dark blue.

6. L. erecta, simplicissima, pubescens: foliis oblongo-ovalibus repando-serrulatis, floribus spicatis alternis subsessilibus, germinibus hispidis, calycibus ciliatis.—*Mich. fl. amer.* 2. *p.* 152. *puberula.*

In the range of mountains, from Virginia to Carolina. ♃. July, Aug. *v. v.* From one to two feet high; flowers middle size, sky blue.

7. L. erecta, simplex, hirtella; foliis ovato-lanceolatis subserratis, racemo folioso, calycibus hirsutis, sinubus reflexis.—*Willd. sp. pl.* 1. *p.* 945. *Siphilitica.*

Icon. *Rob. ic.* 136. *Jacq. ic.* 3. *t.* 597.

In low grounds, on the banks of rivers and near springs: New York to Carolina. ♃. July, Aug. *v. v.* Flowers large, blue. This plant is possessed of great medicinal virtues; on account of which it was introduced into Europe nearly two hundred years ago.

cardinalis. 8. L. erecta, simplex, pubescens; foliis ovato-lanceolatis acuminatis eroso-denticulatis, racemo subsecundo multifloro, genitalibus corolla longioribus.—*Willd. sp. pl.* 1. *p.* 944.

Icon. *Bot. mag.* 320. *Rob. ic.* 137. *Knorr delic.* 2. *t. L.* 2.

In swamps and meadows near springs: Canada to Carolina. ♃. July—Sept. *v. v.* This beautiful plant, with its bright scarlet flowers, rises to the height of from two to four feet. I have seen a white variety of it.

fulgens. 9. L. erecta, simplex, subpubescens; foliis elongato-lanceolatis attenuatis subintegerrimis, racemo multifloro, genitalibus longitudine corollæ.—*Donn. catal.*

Icon. *Bot. rep.* 659.

On the Mississippi. ♃. June, July. *v. v. in Hortis.* This species exceeds in splendour of colour and in size the preceding one.

inflata. 10. L. erecta, ramosa, hirsutissima; foliis ovatis serratis, racemis foliosis, capsulis inflatis.—*Willd. sp. pl.* 1. *p.* 946.

In fields and woods, common: Canada to Carolina. ☉. June—Aug. *v. v.* Flowers blue, small.

Cliffortiana. 11. L. glabra, superne ramosa; foliis petiolatis ovatis crenato dentatis, infimis suborbiculatis, racemis laxis, pedunculis elongatis.—*Willd. sp. pl.* 1. *p.* 946.

Icon. *Plum. ic.* 235. *f.* 2.

In old fields: Virginia. ☉. June, July. *v. v.* Flowers very small, purple.

II. *DECANDRIA.*

546. GERANIUM. *Gen. pl.* 1118.

maculatum. 1. G. erectum, retrorsum pubescens; caule dichotomo, foliis oppositis 3—5-partitis incisis, summis sessilibus, pedunculis elongatis bifloris, petalis obovatis.—*Willd. sp. pl.* 3. *p.* 705.

Icon. *Cavan. diss.* 4. *t.* 86. *f.* 2. *Dill. elth. t.* 132. *f.* 159.

In shady woods and meadows: Canada to Carolina. ♃. May—July. *v. v.* Flowers purple, large. This

species is known in some parts of the mountains by the name of *Alum-root,* on account of the astringent taste of its roots, which are very successfully employed in curing the flux among children, which is a disease very prevalent in those countries.

2. G. diffusum, pubescens; foliis oppositis 5-lobis, lobis trifido-incisis, pedunculis bifloris subfasciculatis, petalis emarginatis longitudine calycis aristati, arillis villosis.—*Willd. sp. pl.* 3. *p.* 711. *carolinianum.*
G. lanuginosum. *Jacq. hort. schœnb.* 2. *t.* 140.
Icon. *Cavan. diss.* 4. *t.* 84. *f.* 1. & *t.* 124. *f.* 2. *Dill. elth. t.* 135. *f.* 162.
In fields: Virginia to Georgia. ♂. June, July. *v. v.* Flowers small, white, with red veins.

3. G. diffusum, pubescens; foliis oppositis 5-partitis, lobis 3-fidis incisis linearibus, pedunculis bifloris elongatis, petalis emarginatis longitudine calycis aristati, arillis pilosis, pilis glandulosis.—*Willd. sp. pl.* 3. *p.* 712. *dissectum.*
Icon. *Cavan. diss.* 4. *t.* 78. *f.* 2.
In fields: New York. ☉. June, July. *v. v.* Flowers rose-coloured, larger than the foregoing one.

4. G. diffusum, hirsutum; foliis oppositis ternatis quinatisque trifido-pinnatifidis, pedunculis bifloris, petalis integris calyce aristato duplo longioribus, arillis reticulatis.—*Willd. sp. pl.* 3. *p.* 714. *robertianum.*
Icon. *Fl. dan.* 694. *Cavan. diss.* 4. *t.* 86 *f.* 1.
In shady moist places, on rocks: New York to Virginia; rare. ♂. June—Aug. *v. v.* Flowers pale red. It is singular, that the American plant has not that heavy scent the European is so well known by, though its other characters agree exactly.

III. *POLYANDRIA.*

547. HALESIA. *Gen. pl.* 814.

1. H. foliis ovatis acuminatis argute serratis, floribus dodecandris, fructu subæqualiter rhomboideo-tetraptero.—*Willd. sp. pl.* 2. *p.* 849. *tetraptera.*
Icon. *Bot. mag.* 910. *Cavan. diss.* 6. *t.* 186. *Catesb. car.* 1. *t.* 64.

In shady woods, on the banks of rivers: Carolina. ♄. April, May. *v. v.* A handsome small tree; flowers white, resembling those of Snow-drops, from which it has been called *Snow-drop Tree* or *Silver-bell Tree.*

diptera. 2. H. foliis oblongo-ovatis obtuse-acuminatis membranaceis, floribus octandris, fructu subelliptico, alis alternis majoribus.—*Willd. sp. pl.* 2. *p.* 849.

Icon. *Cavan. diss.* 6. *t.* 187.

In shady forests of Georgia. ♄. April, May. *v. v. s. fl.*; *v. s. in Herb. Lyon.* Flowers larger than the preceding species.

parviflora. 3. H. fructu inæqualiter subtetraptero clavato floribusque parvulis.—*Mich. fl. amer.* 2. *p.* 40.

In Florida near Matanza. *Michaux.* ♄. +.

548. STYRAX. *Gen. pl.* 753.

grandifolium. 1. S. foliis lato-obovatis acuminatis subtus tomentosis, racemis multifloris elongatis, pedunculis inferioribus axillaribus solitariis unifloris.—*Willd. sp. pl.* 2. *p.* 622.

S. officinale. *Walt. fl. car.* 140.

S. grandiflorum. *Mich. fl. amer.* 2. *p.* 41.

In woods, on the banks of rivers: Virginia to Georgia. ♄. June—Aug. *v. v.* A fine ornamental shrub, as the two following likewise are; flowers white.

pulverulentum. 2. S. foliis subsessilibus ovalibus s. obovatis obtusis subtus pulverulento-tomentosis, floribus axillaribus et subterno-terminalibus brevissime pedicellatis.—*Mich. fl. amer.* 2. *p.* 41.

S. lævigatum. *Bot. mag.* 921.

In woods of Virginia and Carolina. ♄. June—Aug. *v. v.* Resembles the foregoing one. The figure referred to represents the present species, *S. lævigatum* or the following species has to my knowledge not yet been introduced into Europe.

glabrum. 3. S. foliis ovali-lanceolatis utrinque acutis glabris, pedunculis axillaribus unifloris solitariis binisve.—*Cavan. diss.* 6. *t.* 188. *f.* 1.

S. lævigatum. *Willd. sp. pl.* 2. *p.* 624.

S. americanum. *Lam. encycl.* 1. *p.* 82.

S. læve. *Walt. fl. car.* 140.

In the swamps of Virginia and Carolina. ♄. July, Aug. *v. v.* Not above three or four feet high; the number of stamina is from six to ten.

549. HOPEA. *Gen. pl.* 1222.

1. H. foliis oblongo-lanceolatis glaucis, floribus axillaribus aggregatis brevissime pedicellatis.—*Linn. mant.* 105. *tinctoria.*
Symplocos tinctoria. *Willd. sp. pl.* 3. *p.* 1436.
Icon. *Mich. arb. t....* *Catesb. car.* 1. *p.* 54.
In low woods of Virginia and Carolina. ♄. April, May. *v. v.* A small tree or shrub, variable in size, of which there is a variety with leaves pubescent underneath; flowers yellow, small, very sweet scented. The leaves dye a very fine yellow, and have a sweet taste; from which circumstance it is known by the inhabitants under the name of *Sweet-leaf.*

550. GORDONIA. *Gen. pl.* 1144.

1. G. foliis lanceolato-oblongis glaberrimis nitidis coriaceis, floribus longe pedunculatis, capsulis conoideis acuminatis.—*Willd. sp. pl.* 3. *p.* 840. *Lasianthus.*
Hypericum Lasianthus. *Sp. pl.* 1101.
Icon. *Bot. mag.* 668. *Mich. arb. t....* *Cavan. diss.* 6. *t.* 161. *Catesb. car.* 1. *t.* 44. *Pluk. amalth. t.* 352. *f.* 3.
In cedar-swamps, near the sea-coast: Virginia to Florida. ♄. Aug—Sept. *v. v.* A beautiful small evergreen tree; flowers white, the size of a rose.

2. G. foliis obovato-lanceolatis subtus pubescentibus submembranaceis, floribus subsessilibus, capsulis sphæricis.—*Willd. sp. pl.* 3. *p.* 841. *pubescens.*
G. Franklinia. *Willd. sp. pl.* 3. *p.* 841.
Franklinia Alatamaha. *Marsh. arb.* 48.
Lacathea florida. *Parad. lond.* 56. cum icone.
Icon. *Cavan. diss. t.* 162. *Mich. arb. t....*
On the banks of the Alatamaha, near Fort Barrington, Georgia. ♄. Aug. Sept. *v. v.* This elegant tree, whose large white flowers with yellow anthers have a most agreeable appearance, though a native of a very southern latitude, is able to stand a considerable northern climate.

551. STUARTIA. *Gen. pl.* 1142 & 1143.

1. S. foliis ovatis acutis, floribus axillaribus subbinis, calycibus ovatis obtusis, petalis integris, stylis coalitis. *virginica.*
S. Malachodendron. *Willd. sp. pl.* 3. *p.* 840.

Stewartia virginica. *Cavan. diss.* 5. *t.* 159. *f.* 2.
Stewartia marilandica. *Bot. rep.* 397.
Icon. *L'Herit. stirp.* 1. *t.* 73. *Catesb. car.* 3. *t.* 13. *Duham. arb.* 2. *t.* 78.
In swamps in the lower counties of Virginia and Carolina. ♄. July—Sept. *v. v.* From five to seven feet high, very ornamental; flowers large, white. There are a number of varieties, with more or less serrated leaves, more or less pubescent, &c.

pentagyna. 2. S. foliis ovatis acuminatis, floribus axillaribus solitariis, calycibus lanceolatis calyculatis, petalis undulato-incisis, stylis distinctis.—*Willd. sp. pl.* 3. *p.* 840.
Malachodendron ovatum. *Cavan. diss.* 5. *t.* 158. *f.* 2.
Icon. *Exot. bot.* 101. *L'Herit. stirp.* 1. *t.* 74. *J. Miller. ic.* 3.
In the mountains of Carolina and Georgia. ♄. Aug. *v. v.* This beautiful shrub, whose large flowers are of a cream colour, deserves a place in the collection of every admirer of ornamental shrubs. It has generally been considered as a distinct genus; but I follow Dr. Smith's observations in Exotic Botany, considering it always unnecessary to split a small genus on slight differences, though the same differences might be sufficient reasons for establishing a distinction where the genus is numerous.

552. SIDA. *Gen. pl.* 1129.

spinosa. 1. S. caule patulo, axillis subspinosis, foliis longe petiolatis ovato-lanceolatis obsolete cordatis dentatis, pedunculis solitariis axillaribus, stipulis setaceis pedunculo longioribus, capsulis birostratis.—*Willd. sp. pl.* 3. *p.* 736.
Icon. *Cavan. diss.* 1. *t.* 1. *f.* 9. *Pluk. alm. t.* 9. *f.* 6.
Among rubbish and on road-sides: Pensylvania to Carolina. ☉. July, Aug. *v. v.* Flowers yellow, small.

hispida. 2. S. hispido-pilosa; foliis lanceolatis serratis, pedunculis solitariis axillaribus longitudine petiolorum, calyce exteriore filiformi.
In sandy plains of Georgia. *Lyon.* ♃. *v. s. in Herb. Lyon.* Flowers yellow.

rhombifolia. 3. S. foliis oblongo-lanceolatis dentatis basi cuneiformibus integerrimis, pedunculis petiolis multo longioribus, capsulis bicornibus. *Willd. sp. pl.* 3. *p.* 740.
Icon. *Cavan. diss.* 1. *t.* 3. *f.* 12. *Dill. elth. t.* 172. *f.* 212.

In cultivated grounds and among rubbish: Virginia to Florida. ☉. ♄. June—Aug. *v. v.* Flowers yellow, small.

4. S. foliis oblongo-cordatis acuminatis crenatis summis sessilibus, pedunculis solitariis petiolo longioribus fructiferis deflexis, capsulis inflatis muticis undulato-crispis. *Willd. sp. pl.* 3. *p.* 747. *crispa.*

Icon. *Cavan. diss.* 1. *t.* 7. *f.* 1. *Dill. elth. t.* 5. *f.* 5.

On the sea-coast of Carolina. ☉. July—Sept. *v. v.* Flowers white, small.

5. S. foliis subrotundo-cordatis acuminatis dentatis tomentosis, pedunculis solitariis petiolo brevioribus, capsulis biaristatis truncatis. *Willd. sp. pl.* 3. *p.* 750. *Abutilon.*

Icon. *Schkuhr handb.* 190.

In cultivated grounds: Pensylvania to Carolina. ☉. July, Aug. *v. v.* A tall plant; flowers dark yellow.

6. S. foliis cordatis 5-lobis glabris, lobis oblongis acuminatis dentatis, pedunculis multifloris, capsulis muticis acuminatis. *Willd. sp. pl.* 3. *p.* 766. *Napæa.*

Napæa lævis. *Syst. veg.* 750.

Napæa hermaphrodita. *Sp. pl.* 965.

Icon. *Cavan. diss.* 5. *t.* 132. *f.* 1. *Herm. lugdb. t.* 23.

In shady rocky places: Pensylvania to Virginia; rare. ♃. July—Sept. *v. v.* From two to four feet high; flowers white.

7. S. foliis 7-lobo-palmatis scabris, lobis lanceolatis inciso-dentatis, floribus dioicis corymbosis bracteatis. *Willd. sp. pl.* 3. *p.* 766. *dioica.*

Napæa scabra. *Syst. veg.* 750.

Napæa dioica. *Sp. pl.* 965.

Icon. *Cavan. diss.* 5. *t.* 132. *f.* 2. *Ehret. pict.* 7 & 8.

In stony ground, in the upper parts of Virginia. ♃. July, Aug. *v. v.* Flowers white.

8. S. foliis inferioribus triangulo-cordatis incisis, superioribus palmato-multifidis, corymbo terminali, calycibus hispidis. *Mich. fl. amer.* 2. *p.* 44. *alcæoides.*

In stony fields of Kentucky, Tennassee, &c. ♃. July, Aug. *v. s.* Resembles in habit *Malva Alcea.*

553. CRISTARIA. *Cavan. ic.* 5. *p.* 10.

1. C. undique cano-tomentosa et pilis stellatis obsita; foliis 3—5-fidis, laciniis incisis acutis, racemis terminalibus, caule diffuso. *coccinea.*

Malva coccinea. *Fraser. catal.*

On the dry prairies and extensive plains of the Missouri. ♃. Aug. Sept. *v. v.; v. s. in Herb. Lewis.* Flowers scarlet.

Caulis teres, subpedalis, ramosus, ramis diffusis, tomentosis, pilis stellatis distinctis obsitis, uti tota planta. *Folia* alterna, petiolata, palmato-3—5-partita: laciniis subpinnatifido-incisis, lobis sinubusque acutis. *Petioli* teretes, longitudine folii. *Stipulæ* lineares, erectæ, marcescentes. *Flores* terminales, racemosi, coccinei, diametro pollicari. *Calyx* 5-fidus, laciniis lanceolatis acutis. *Petala* 5. oblique cuneato-obcordata, subunguiculata, ad ungues fasciculato-villosa, calyce duplo longiora. *Filamenta* monadelpha, numerosa, in columnam brevem connata, superne libera, patentia. *Styli* circiter 10. *Fructus* orbiculatus.

The singularly stellated fasciculi of hair, placed on the close tomentum, and its bright scarlet flowers, make this plant particularly interesting.

584. MALVA. *Gen. pl.* 1134.

abutiloides. 1. M. foliis 5-angulari-lobatis tomentosis, pedunculis sub-4-floris bifidis axillaribus, capsulis polyspermis. *Willd. sp. pl.* 3. *p.* 780.

Icon. *Jacq. hort. schœnbr.* 3. *t.* 293. *Cavan. diss.* 2. *t.* 16. *f.* 2.

On the sea-coast of Carolina. ♃. June—Aug. *v. v.* Flowers large, purple.

caroliniana. 2. M. foliis 5-lobis palmatisve inciso-dentatis, pedunculis petiolo longioribus, petalis integris, fructu villoso, caule prostrato. *Willd. sp. pl.* 3. *p.* 784.

Icon. *Cavan. diss.* 2. *t.* 15. *f.* 1. *Dill. elth. t.* 4. *f.* 4. *Schkuhr handb.* 192.

In fields: Virginia and Carolina. ☉. July—Sept. *v. v.* Flowers dark red.

rotundifolia. 3. M. caule prostrato, foliis cordato-orbiculatis obsolete 5-lobis, pedunculis fructiferis declinatis. *Willd. sp. pl.* 3. *p.* 786.

Icon. *Fl. dan.* 721. *Cavan. diss.* 2. *t.* 26. *f.* 3. *Schkuhr handb.* 1.

In cultivated grounds: Pensylvania to Virginia. ♃. June—Sept. *v. v.* Flowers white, small.

555. MALOPE. *Gen. pl.* 1136.

1. M. foliis oblongis obtusis integris crenatis supra glabris, pedunculis solitariis axillaribus. *Willd. sp. pl.* 3. *p.* 799. *malacoides*
Icon. *Cavan. diss.* 2. *t.* 27. *f.* 1. *Sabb. hort.* 1. *t.* 50. *Rob. ic.* 189.
In Carolina. *Walter.* ⊙. +. Though I doubt of this plant having been found in America, yet it is worth drawing the attention of the botanist to find out what Walter means by it.

556. HIBISCUS. *Gen. pl.* 1139.

1. H. foliis ovatis acuminatis serratis subtrilobis sub-5-nervibus subtus incano-tomentosis, pedunculis floriferis, calycibus tomentosis, capsulis glabris.—*Willd. sp. pl.* 3. *p.* 806. *Moscheutos*
H. palustris. *Walt. fl. car.* 176.
Icon. *Cavan. diss.* 3. *t.* 65. *f.* 1. *Bot. mag.* 882. *sub H. palustri.*
In swamps and salt-marshes: New York to Carolina; plentifully in the marshes round the Salt-lake, Onondago, New York. ♃. Aug.—Oct. *v. v.* Flowers large, white, with a purple bottom, or sometimes pale purple.

2. H. foliis lato-ovatis obtuse-serratis subtrilobis 3-nervibus subtus tomentosis, pedunculis axillaribus petiolo longioribus.—*Willd. sp. pl.* 3. *p.* 808. *palustris.*
Icon. *Cavan. diss.* 3. *t.* 65. *f.* 2.
In swamps and marshes: Canada to Virginia. ♃. Aug. —Oct. *v. v.* Flowers large, purple. This plant has been generally confounded with the former, but is very distinct.

3. H. foliis amplis coriaceis triangulato-cordatis trilobis utrinque eximie tomentosis subtus incanis, capsulis tomentoso-hirsutissimis subtruncatis.—*Mich. fl. amer.* 2. *p.* 46. *grandiflorus.*
In salt-marshes of Georgia and Florida, and on the banks of the Mississippi. ♃. Aug.—Oct. *v. v.* Flowers very large, flesh-coloured, with a red bottom; the fructifications yellow.

4. H. foliis ovatis acuminatis obtuse serratis utrinque incano-tomentosis, pedunculis axillaribus, calycibus tomentosis subæqualibus.—*Willd. sp. pl.* 3. *p.* 807. *incanus.*

Icon. *Wendl. hort. herrenh.* 4. *t.* 24. *Bartr. ic. ined. in Mus. Banks.*

In Carolina. ♃. Sept. +. Flowers very large, sulphur-coloured.

esculentus. 5. H. foliis cordatis 5-lobis obtusiusculis dentatis, petiolis flore longioribus, calycibus exterioribus subdecaphyllis deciduis, interioribus longitudinaliter rumpentibus. *Willd. sp. pl.* 3. *p.* 827.

Icon. *Cavan. diss.* 3. *t.* 61. *f.* 2. *Comm. hort.* 1. *t.* 19.

In cultivated grounds: Virginia and Carolina. ⊙. June—Sept. *v. v.* Flowers yellow. It is generally cultivated by the name of *Okra* for the sake of its unripe capsules, which give a fine dish for the table.

virginicus. 6. H. undique tomentosus, asper; foliis acuminatis inæqualiter dentatis, inferioribus cordatis indivisis, superioribus cordatis oblongis trilobis, pedunculis axillaribus et racemoso-terminalibus, floribus cernuis, pistillis nutantibus. *Willd. sp. pl.* 3. *p.* 831.

H. clypeatus. *Walt. fl. car.* 177.

Icon. *Jacq. ic. rar. t.* 142. *Pluk. phyt. t.* 6. *f.* 4.

In salt-marshes, on the sea-coast: New Jersey to Carolina. ♃. Aug. Sept. *v. v.* Flowers small, rose-coloured.

militaris. 7. H. glaberrimus; foliis 3-lobo-hastatis acuminatis serratis, corolla tubulato-campanulata, capsulis ovatis acuminatis glabris, seminibus holosericeis.—*Willd. sp. pl.* 3. *p.* 808.

H. lævis. *Scop. del. insub.* 3. *t.* 17.

H. virginicus. *Walt. fl. car.* 177.

H. hastatus. *Mich. fl. amer.* 2. *p.* 45.

H. riparius. *Pers. syn.* 2. *p.* 254.

Icon. *Scop. del. insub.* 3. *t.* 17. *Cavan. diss.* 6. *t.* 198. *f.* 2.

On the banks of rivers in Louisiana and the western parts of Pensylvania and Carolina. ♃. Aug. Sept. *v. v.* Flowers purple, large.

speciosus. 8. H. glaberrimum; foliis palmato-5-partitis, laciniis lanceolatis acuminatis apice remote serratis, calycibus exterioribus decaphyllis, corolla patula, capsula glabra 5-gono-ovata.—*Willd. sp. pl.* 3. *p.* 822.

H. coccineus. *Walt. fl. car.* 177.

Icon. *Bot. mag.* 360. *Wendl. hort. herrenh. t.* 11.

On the banks of rivers of South Carolina and Florida. ♃. Aug. Sept. *v. v.* A most elegant peren-

nial. When in high perfection, the stem will rise to more than eight feet, and the deep scarlet flowers grow to a larger size than any other Hibiscus I know.

9. H. caule petiolisque inermibus, foliis palmato-digitatis 7-partitis, laciniis linearibus, pedunculis hispidis, calyce exteriore 1-phyllo, interiore hinc lacero, capsula hirsutissima pyramidata.—*Willd. sp. pl.* 3. *p.* 825. *Manihot.*

Icon. *Cavan. diss.* 3. *t.* 63. *f.* 2. *Dill. elth. t.* 156. *f.* 189.

On the banks of the Mississippi. ♃. July—Sept. *v. v.* Flowers sulphur-yellow, with a purple bottom, very large when in rich soil.

10. H. caule scabro, foliis asperis basi truncatis circumscriptione subrotundis, superioribus palmatis, lobis superne dilatatis crenatis, floribus subsessilibus, calycibus hispidissimis exteriore furcellato. *Mich. fl. amer.* 2. *p.* 45. *scaber.*

H. aculeatus. *Walt. fl. car.* 177.

Near the sea-coast, in marshes: Carolina to Florida. ♃. July—Sept. *v. v.* Flowers very handsome and large, bright yellow with a dark purple bottom.

XVI. DIADELPHIA.

I. PENTANDRIA.

557. PETALOSTEMUM. *Pet.* 4. staminibus interjecta: utraque in tubum fissum connata. *Vexillum* nullum, ejus loco quintum petalum. *Legum.* calyce tectum, 1-spermum.

II. HEXANDRIA.

558. CORYDALIS. *Cal.* diphyllus. *Cor.* ringens. *Filam.* 2. membranacea, singula *Antheris* 3. *Caps.* siliquosa, polysperma.
559. FUMARIA. *Cal.* diphyllus. *Cor.* irregularis, basi calcarata. *Filam.* 2. singula *Antheris* 3. *Caps.* 1-locularis, evalvis, 1-sperma.

III. OCTANDRIA.

560. POLYGALA. *Cal.* 5. phyllus: foliolis duobus alæformibus, coloratis. *Caps.* obcordata, 2-locularis, 2-valvis.

IV. DECANDRIA.

* *Stamina omnia connexa.*

561. AMORPHA. *Cal.* campanulatus, 5-fidus. *Cor.* vexillum ovatum, concavum. *Alæ Carinaque* nullæ. *Legum.* 2-spermum, falcatum.
562. ERYTHRINA. *Cal.* 2-lobatus. *Cor.* vexillum longissimum, lanceolatum. *Legumen* torulosum.
563. LUPINUS. *Cal.* 2-labiatus. *Anth.* 5. oblongæ, 5. subrotundæ. *Legum.* coriaceum.
564. CROTALARIA. *Cor.* vexillum cordatum, magnum, carina acuminata. *Filam.* connata cum fissura dorsali. *Legum.* pedicellatum, turgidum.

** *Stigma pubescens.* (Nec priorum notæ.)

565. PHASEOLUS. *Carina* cum *Staminibus Styloque* spiraliter torta.
566. DOLICHOS. *Vexilli* basis callis 2. parallelis oblongis, *alas* subtus comprimentibus.
567. PISUM. *Cal.* laciniæ foliaceæ æquales. *Vexillum* plicas 2. protrudens. *Stylus* compressus, carinatus, supra villosus. *Legum.* ad suturas nudum.
568. LATHYRUS. *Cal.* laciniæ superiores 2. breviores. *Stylus* planus, supra villosus, superne latior.
569. VICIA. *Cal.* superne emarginatus, 2-dentatus, inferne dentibus 3. rectis longis. *Vexillum* emarginatum. *Stigma* latere inferiore transverse barbatum.

*** *Legumen subbiloculare.* (Nec priorum.)

570. ASTRAGALUS. *Carina* obtusa. *Legum.* biloculare aut subbiloculare, sutura inferiore introflexa.
571. OXYTROPIS. *Carina* in mucronem superne desinens. *Legum.* biloculare aut subbiloculare, sutura superiore introflexa.
572. APIOS. *Cal.* campanulatus, bilabiatus. *Carina* vexillum reflectens. *Appendix :* tubulus ex centro disci, denticulatus, vaginans basin stipitis germini. *Legumen* coriaceum, biloculare, dissepimento seminibus interceptum.

**** *Legumina submonosperma.* (Nec priorum.)

573. DALEA. *Cal.* glandulosus, subsemi-5-fidus. *Alæ* et *Carina* columnæ staminum adnatæ. *Vexill.* breve. *Stam.* omnia connata. *Legum.* 1-spermum, calyce brevius.
574. PSORALEA. *Cal.* longitudine leguminis. *Stam.* diadelpha. *Legum.* 1-spermum, subrostratum, evalve.
575. MELILOTUS. *Cal.* tubulosus, 5-dentatus. *Carina* simplex, alis et vexillo brevior. *Legum.* calyce longius, rugosum. *Flores* racemosi.
576. TRIFOLIUM. *Legum.* calyce tectum, evalve, 2—4-spermum. *Flores* subcapitati.
577. LUPINASTER. *Cal.* campanulatus, 5-dentatus, dentibus setaceis, uno sub carina. *Stigma* uncinatum. *Legum.* enode, teres, polyspermum.
578. STYLOSANTHES. *Cal.* tubulosus, longissimus, corollifer. *Germen* sub corolla. *Lomentum* 1–2-articulatum, hamatum.

579. GLYCYRRHIZA. *Cal.* 2-labiatus, basi gibbus. *Cor.* vexillum alas et carinam includens. *Legum.* ovatum, compressum, hispidum, 2—4-spermum.

580. LESPEDEZA. *Cal.* 5-partitus, laciniis subæqualibus. *Cor.* carina transverse obtusa. *Legum.* lenticulare, inerme, 1-spermum.

***** *Legumen in articulos secedens.* (Nec priorum.)

581. HEDYSARUM. *Cal.* 5-fidus. *Cor.* carina transverse obtusa. *Lomentum* pluri-articulatum: articulis 1-spermis, compressis, utplurimum hispidis.

582. ZORNIA. *Cal.* campanulatus, 2-labiatus. *Vexillum* cordatum, revolutum. *Antheræ* alternæ oblongæ, alternæ globosæ. *Lomentum* articulatum, hispidum.

583. ÆSCHYNOMENE. *Cal.* bilabiatus. *Lomentum* compressum, sutura altera recta, altera lobata, articulis truncatis, 1-spermis.

584. SESBANIA. *Cal.* dentibus subæqualibus. *Legum.* elongatum, subcylindricum, 2-valve.

****** *Legumen uniloculare polyspermum.* (Nec priorum.)

585. GLYCINE. *Cal.* bilabiatus: dente labii inferioris longiore. *Cor.* carina apice vexillum reflectens. *Stylus* incurvus. *Legum.* oblongum, compressum.

586. GALACTIA. *Cal.* 4-dentatus, 2-bracteatus. *Petala* omnia oblonga, vexillo latiore incumbente. *Stigm.* obtusum. *Legum.* teres. *Sem.* subrotunda.

587. CLITORIA. *Cal.* tubuloso-campanulatus. *Cor.* resupinata: vexillo maximo, patente, alas obumbrante. *Legum.* lineare, longissimum, acuminatum.

588. ROBINIA. *Cal.* 4-fidus, lacinia superiore bipartita. *Vexillum* reflexo-patens, subrotundum. *Legum.* gibbum, elongatum.

589. INDIGOFERA. *Cal.* patens. *Cor.* carina utrinque calcari subulato patulo. *Legum.* lineare, parvulum, teres, subquadrangulare.

590. TEPHROSIA. *Cal.* dentibus subulatis, subæqualibus. *Stam.* monadelpha. *Legum.* compressum, subcoriaceum.

591. LOTUS. *Cal.* tubulosus. *Alæ* sursum longitudinaliter conniventes. *Filam.* cuneiformia. *Legum.* cylindricum, strictum.

592. MEDICAGO. *Carina* corollæ a vexillo deflectens. *Legum.* compressum, cochleatum.

I. *PENTANDRIA.*

557. PETALOSTEMUM. *Mich. fl. amer.* 2. *p.* 48.

Dalea. *Juss. gen. pl.* 392.

1. P. spica cylindrica pedunculata, bracteis flore longioribus, calycibus glabris, foliis trijugis lanceolatis.—*Mich. fl. amer.* 2. *p.* 49. *candidum.*
   Dalea candida. *Willd. sp. pl.* 3. *p.* 1337.
   Icon. *Mich. l. c. t.* 37. *f.* 1.
   In Tennassee, Illinois, and on the banks of the Missouri. ♃. July, Aug. *v. s. in Herb. Lewis.* &c. Flowers white.

2. P. spica cylindrica pedunculata, bracteis subulatis longitudine calycis, bracteolis setaceis persistentibus, calycibus glabris, foliolis lanceolatis.—*Mich. fl. amer.* 2. *p.* 49. *carneum.*
   In pine-barrens of Georgia and Florida. ♃. July, Aug. *v. s. in Herb. Enslen.* &c.

3. P. spica cylindrica pedunculata, bracteis calycem subæquantibus, bracteolis spathulatis deciduis, calycibus sericeis, foliis bijugis linearibus.—*Mich. fl. amer.* 2. *p.* 50. *violaceum.*
   Dalea violacea. *Willd. sp. pl.* 3. *p.* 1337.
   Icon. *Mich. l. c. t.* 37. *f.* 2.
   In Tennassee, Illinois, and on the banks of the Missouri. ♃. July—Sept. *v. v.* A beautiful plant; the close spikes are of a delicate rose-purple.

4. P. spicis cylindricis pedunculatis terminalibus, bracteis calyce brevioribus, calycibus villosis, foliis sub-10-jugis ellipticis retusis mucronatis. *alopecuroideum.*
   Dalea alopecuroides. *Willd. sp. pl.* 3. *p.* 1336.
   In Georgia and Florida. ♃. July, Aug. *v. s. in Herb. Enslen.* Flowers pale blue.

5. P. capitulis squamoso-involucratis, pedunculis paniculato-corymbosis, calycibus plumosis, foliolis linearibus muticis.—*Mich. fl. amer.* 3. *p.* 50. *corymbosum.*
   Dalea Kuhnistera. *Willd. sp. pl.* 3. *p.* 1337.
   Kuhnistera caroliniensis. *Lam. encycl.* 3. *p.* 371.
   Kuhniæ affinis pinnata. *Walt. fl. car.* 103.
   In pine-barrens of Carolina and Georgia. ♃. June—

Aug. *v. v.* Flowers white. This singular plant appears, at first sight, to belong to the class Syngenesia, and certainly is the connecting link between that class and the present.

II. *HEXANDRIA.*

558. CORYDALIS. *Vent. choix de pl.* 19.

Fumaria. *Gen. pl.* 1154.

* *Corollis bicalcaratis.* Perizomanthi.

Cucullaria. 1. C. scapo nudo, racemo simplici secundo, nectariis divaricatis longitudine corollæ, stylo incluso, radice bulbosa. —*Pers. syn.* 2. *p.* 269.

Fumaria Cucullaria. *Willd. sp. pl.* 3. *p.* 857.

Icon. *Bot. mag.* 1127. *Rob. ic.* 222. *Pluk. alm. t.* 90. *f.* 3.

On the side of shady hills, in rich vegetable mould, among rocks: Canada to Virginia. ♃. May. *v. v.* Flowers white, with a yellow mouth. This singularly constructed flower is known among the inhabitants by the name of *Breeches-flower* or *Yellow-breeches;* and as I consider that all those species with two spurs or nectaries might form, with propriety, a good genus, I have given it the name of *Perizomanthus.*

formosa. 2. C. scapo nudo, racemo subcomposito nutante multifloro, nectariis brevissimis incurvis, stylo porrecto, laciniis foliorum oblongis inciso-pinnatifidis, radice tuberosa.

Icon. *Bot. rep.* 393. *Bot. mag.* 1335. sub Fumaria.

In Canada, and on the highest peaks of the Virginia and Carolina mountains, in the cliffs of shady rocks. ♃. May—July. *v. v.* Flowers a lively bright red. This elegant perennial deserves a place in every collection. The Canada plant is somewhat different in aspect from the Virginian, but not sufficiently distinct to make it a species.

tenuifolia. 3. C. scapo nudo, racemo simplici nutante paucifloro, nectariis brevissimis incurvis, stylo longe exerto, foliis tenuissime laciniatis, radice tuberosa.

On the north-west coast. ♃. June. *v. s. in Herb.*

Lambert. specimen Pallasianum. Flowers of nearly the same shape and colour as the foregoing species.

4. C. caule scandente, foliis cirrhosis, racemis axillaribus corymbosis cernuis, corollis monopetalis basi bigibbis. —*Pers. syn.* 2. *p.* 269. *fungosa.*

Fumaria fungosa. *Willd. sp. pl.* 3. *p.* 857.

Fumaria recta. *Mich. fl. amer.* 2. *p.* 51.

In moist and shady places, in the beech-woods of Canada and Pensylvania. ♂. June—Sept. *v. v.* A delicate twining plant; flowers pale red and in great abundance.

** *Corollis unicalcaratis.*

5. C. caule ramoso erecto, foliis glaucis, caulinis biternatis, racemis subcorymbosis, bracteis minutis, siliquis linearibus pedunculo triplo longioribus.—*Pers. syn.* 2. *p.* 269. *glauca.*

Fumaria sempervirens. *Willd. sp. pl.* 3. *p.* 863.

Icon. *Bot. mag.* 179. *Corn. canad.* 57.

In the cliffs of rocks, in Canada, and on the Allegany mountains. ⊙. ♂. June—Aug. *v. v.* Flowers very handsomely variegated wilh yellow, red, and green.

6. C. caule ramoso diffuso, foliis bipinnatis, foliolis partitis lineari-lanceolatis utrinque acutis, racemis secundis, bracteis lato-lanceolatis subdenticulatis, siliquis teretibus turgidis pedunculo duplo longioribus.—*Willd. enum.* 740. *aurea.*

On shady rocks: Pensylvania to Virginia. ⊙. May—July. *v. v.* Flowers bright yellow; the leaves and the size of the flowers resemble those of the preceding species.

559. FUMARIA. *Gen. pl.* 1154.

1. F. caule ramoso diffuso, foliis supradecompositis, foliolis cuneiformi-lanceolatis incisis.—*Willd. sp. pl.* 3. *p.* 867. *officinalis.*

Icon. *Fl. dan.* 940. *Engl. bot.* 589.

In cultivated grounds: Pensylvania to Virginia; rare. ⊙. May—Aug. *v. v.* Flowers small, red, mixed with green.

III. *OCTANDRIA.*

560. POLYGALA. *Gen. pl.* 1154.

* *Cristatæ.* Floribus appendice penicilliformi.

incarnata. 1. P. caule simpliciusculo erecto, foliis sparsis subulatis, spicis ovali-oblongis, corollis tubo gracili elongato.—*Willd. sp. pl.* 3. *p.* 871.

In low sandy fields and on the edge of rivulets: Jersey to Carolina. ☉. June, July. *v. v.* A delicate little plant; flowers of a bright flesh-colour.

rubella. 2. P. pubescens; caule simplici erecto, foliis angusto-lanceolatis acutis, racemo terminali, bracteis subulatis solitariis caducis, alis calycinis nervoso-venosis truncato-rotundatis corolla longioribus.

P. rubella. *Willd. sp. pl.* 3. *p.* 875?

In woods and on dry shady hills: Pensylvania to Georgia. ♃. June, July. *v. v.* Flowers pale red. This species approaches near to *P. vulgaris.* Whether Willdenow's plant is the same or not, I am not able to determine; but I strongly suspect he had but an imperfect specimen, in which the very minute bracteæ had disappeared. If his specimen has come from Dr. Muhlenberg, it certainly is the same plant.

paucifolia. 3. P. pumila, grandiflora; caulibus simplicissimis erectis inferne nudis, foliis ovatis acutis glabris, floribus terminalibus subternis.—*Willd. sp. pl.* 3. *p.* 880.

In sphagnous swamps and bogs: Pensylvania to Virginia; principally on the mountains. ♃. May—Aug. *v. v.* Not above three or four inches high; flowers the largest of those mentioned here, about the size of *P. myrtifolia,* of a fine pale red colour.

** *Imberbes.*

uniflora. 4. P. pumila; caulibus simplicissimis erectis inferne nudiusculis, foliis paucis lato-ovatis in petiolum angustatis, floribus solitariis sparsis pedicellatis nutantibus.—*Mich. fl. amer.* 2. *p.* 53.

On the banks of lake Ontario. *Michaux.* ♃. +.

Senega. 5. P. caulibus erectis simplicissimis foliosis, foliis alternis lanceolatis, spica terminali filiformi, floribus alternis. *Willd. sp. pl.* 3. *p.* 894.

Icon. *Bot. mag.* 1051. *Mill. dict.* 3. *t.* 5. *Amœn. acad.* 2. *t.* 2.

α. P. foliis lanceolatis, vel ovalibus, spica confertiuscula, floribus albidis subsessilibus.—*Mich. fl. amer.* 2. *p.* 53. albida.

β. P. glabella vel pubescens; foliis lineari-lanceolatis, spica laxiuscula alterniflora, floribus roseis.—*Mich. fl. amer.* 2. *p.* 53. rosea.

On the side of hills and in dry woods: α. Canada and throughout the Allegany mountains. β. in Carolina and Georgia. ♃. June—Aug. *v. v.* This is the famous *Seneca Snake-root*, formerly so celebrated for the bite of rattle-snakes; but other more efficacious remedies have supplanted it. Vid. *Prenanthes* and *Liatris.*

6. P. caule simplici vel ramoso; foliis radicalibus infimisque spathulatis, cæteris lanceolatis, spica cylindraceo-capitata confertiflora pedunculata.—*Willd. sp. pl.* 3. *p.* 894. *lutea.*

Icon. *Pluk. amalth. t.* 438. *f.* 6.

α. P. caule subvirgatim elatiore. elatior.

β. P. subacaulis, foliis omnibus spathulatis, capitulo majore. nana.

In wet woods and bogs: New Jersey to Florida. β. in low meadows of Carolina. ⊙. ♂. July, Aug. *v. v.* A fine species; flowers of a golden yellow; the var. β. does not grow above three or four inches high.

7. P. caule erecto simplicissimo, foliis lineari-lanceolatis obtusiusculis, capitulo terminali globoso-capitato.—*Willd. sp. pl.* 3. *p.* 895. *viridescens.*

In dry woods: Pensylvania to Carolina. ⊙. July, Aug. *v. v.* Flowers greenish-white, with some red. In general habit it resembles *P. incarnata.*

8. P. caule setaceo subaphyllo simplici, summitate subramoso, foliis parvis setaceis sparsis, floribus minutis dense spicatis.—*Mich. fl. amer.* 2. *p.* 52. *setacea.*

In Carolina and Georgia. ⊙. July, Aug. *v. s. in Herb. Lyon.*

9. P. caule erecto summitate corymboso-ramoso, foliis alternis linearibus, spicis capitatis, pedunculis squarrosis.—*Willd. sp. pl.* 3. *p.* 896. *sanguinea.*

Icon. *Pluk. mant. t.* 438. *f.* 5.

In woods on the side of hills: New England to Carolina. ⊙. July, Aug. *v. v.* Flowers rose-coloured.

10. P. caule a basi ramoso, foliis alternis ellipticis obtusis basi attenuatis, spicis terminalibus oblongis, floribus alter- *polygama.*

nis pedunculatis, spicis inferioribus depressis apetalis. —*Walt. fl. car.* 179.

In the pine-barrens of Carolina. ☉. July, Aug. *v. s.* Calyx greenish-white, with pale yellow petals.

verticillata. 11. P. caule erecto ramoso, foliis verticillatis linearibus, spicis setaceis pedunculatis, floribus distincte alternis approximatis.—*Willd. sp. pl.* 3. *p.* 897.

Icon. *Pluk. mant. t.* 438. *f.* 4.

On the sides of dry hills and in pine-woods: New York to Carolina. ☉. June—Aug. *v. v.* Flowers very small, white, or sometimes pale red.

cruciata. 12. P. caule erecto ramoso alato-anguloso, foliis quaternis lineari-lanceolatis, capitulis spicatis sessilibus.—*Willd. sp. pl.* 3. *p.* 897.

In wet places, on the edge of bogs and rivulets; Canada to Carolina. ☉. July—Sept. *v. v.* Flowers red mixed with green.

IV. *DECANDRIA.*

561. AMORPHA. *Gen. pl.* 1170.

fruticosa. 1. A. glabra, subarborescens; foliis petiolatis, spicis aggregatis elongatis, calycibus nudiusculis pedicellatis, dentibus 4. obtusis, unico acuminato, leguminibus oligospermis.—*Willd. sp. pl.* 3. *p.* 970.

Icon. *Schmidt arb.* 30. *Schkuhr handb.* 197. *Hort. cliff. t.* 19. *Mill. ic.* 27. *Duham. arb. t.* 46.

vulgaris. α. A. foliis mucronatis, calycibus glabris.

emarginata. β. A. foliis emarginatis, calycibus canis.

angustifolia. γ. A. foliis lineari-ellipticis basi subacutis.

On the banks of rivers: Carolina and Florida. ♄. June, July. *v. v.* Var. γ. *v. s. in Herb. Lewis.* A shrub from nine to twelve feet high. Flowers of a very fine blue, in close and long spikes. It is generally known by the name of *Wild Indigo.* The leaves, as in all the following species, are beset with glands, which are transparent.

microphylla. 2. A. glabriuscula, pumila; foliis brevissime petiolatis utrinque obtusis, spicis solitariis abbreviatis, calycibus nudiusculis pedicellatis, dentibus omnibus acuminatis, leguminibus monospermis.

A. nana. *Fraser. catal.* 1813.
On the banks of the Missouri. ♄. July, Aug. *v. s. in Herb. Lewis.* From one to two feet high; flowers purple and fragrant. A very elegant little shrub.

3. A. humilis, frutescens; foliis brevissime petiolatis sine mucrone utrinque obtusis glabriusculis, spicis paniculatis elongatis pubescentibus, calycibus subsessilibus, dentibus omnibus acuminatis.—*Willd. sp. pl.* 3. *p.* 970. *pubescens.*
A. herbacea. *Walt. fl. car.* 179.
A. pumila. *Mich. fl. amer.* 2. *p.* 64.
In sandy dry fields: Carolina and Georgia. ♄. June, July. *v. v.* From two to three feet high; flowers a fine blue, smaller than No. 1.

4. A. undique cano-tomentosa, humilis; foliolis approximatis subsessilibus ovato-ellipticis acutis mucronatis, spicis paniculatis cano-tomentosis, calycibus sessilibus, dentibus omnibus acuminatis. *canescens.*
On the banks of the Missouri and Mississippi. ♄. July, Aug. *v. v.* Resembles the foregoing one very much; flowers of a more beautiful blue.

562. ERYTHRINA. *Gen. pl.* 1168.

1. E. pumila; foliis ternatis rhombeis glabris, spicis longissimis, caule herbaceo inermi.—*Willd. sp. pl.* 3. *p.* 912. *herbacea.*
Icon. *Bot. mag.* 877. *Trew. ehret. t.* 58. *Catesb. car.* 49. *Dill. elth. t.* 90. *f.* 106.
In sandy woods and fields: Carolina and Florida. ♃. June, July. *v. v.* A beautiful perennial; flowers scarlet.

563. LUPINUS. *Gen. pl.* 1176.

1. L. perennis, repens; caule foliisque glabriusculis, foliis digitatis: foliolis (8–9) lanceolatis obtusiusculis, calycibus alternis inappendiculatis: labio superiore emarginato; inferiore integro.—*Willd. sp. pl.* 3. *p.* 1022. *perennis.*
Icon. *Bot. mag.* 202. *Mill. dict. t.* 170. *f.* 1.
On dry hills, in gravelly soil: Canada to Florida. ♃. May—July. *v. v.* Flowers blue, purple, and sometimes white.

2. L. perennis; caule foliisque hirsutis, foliis digitatis: foliolis (7–8) lanceolatis obtusis, calycibus verticillatis *nootkatensis.*

inappendiculatis: labio superiore emarginato, inferiore integro.—*Donn. catal. hort. cantab.*

Icon. *Bot. mag.* 1311.

On the north-west coast. *Menzies.* ♃. June, July. *v. s. in Herb. Lambert.* This stately perennial approaches near to the foregoing one in its general character, but the flowers are larger and beautifully variegated. In the Herbarium of A. B. Lambert, Esq. is a specimen from Professor Rudolph, of St. Petersburg, collected in Unalashka, under the name of *L. regius*, decidedly the same with the present species, the name of which sufficiently shows the grandeur of this plant in its native state.

sericeus. 3. L. perennis; caule foliisque sericeo-tomentosis, foliis digitatis: foliolis (7–8) lanceolatis acutis utrinque sericeis, calycibus subverticillatis inappendiculatis: labio superiore inciso; inferiore integro.

On the banks of the Kooskoosky. *M. Lewis.* ♃. July. *v. s. in Herb. Lewis.* Flowers pale purple, or rose-coloured.

argenteus. 4. L. perennis; foliis digitatis: foliolis (5–7) lineari-lanceolatis acutis supra glabris subtus argenteo-sericeis, calycibus alternis inappendiculatis: labio superiore obtuso; inferiore integro.

On the banks of the Kooskoosky. *M. Lewis.* ♃. June, July. *v. s. in Herb. Lambert.* Flowers small, cream-coloured.

pusillus. 5. L. biennis, pusillus, undique pilis longis albidis hirsutissimus; foliis digitatis: foliolis (7) lineari-ellipticis supra glabris, calycibus alternis inappendiculatis: labio superiore bipartito; inferiore integro, leguminibus subdispermis.

On the banks of the Missouri. ♂. June. *v. s. in Herb. Lewis.* Flowers small, a fine blue mixed with some red.

villosus. 6. L. perennis, villosissimus; foliis simplicibus oblongis, spicis elongatis, calycibus alternis inappendiculatis: labio superiore bifido; inferiore integro elongato.—*Mich. fl. amer.* 2. *p.* 56.

L. pilosus. *Walt. fl. car.* 180.

In dry sandy fields: Carolina and Florida. ♃. June—Aug. *v. v.* A beautiful perennial, but very shy of cultivation; flowers very variable in colour: white, rose red, and purple.

564. CROTALARIA. *Gen. pl.* 1172.

1. C. hirsuta, erecta, ramosa; foliis simplicibus oblongo-lanceolatis, stipulis lanceolatis acuminatis decurrentibus, racemis oppositifoliis subtrifloris, corollis calyce minoribus.—*Willd sp. pl.* 3. *p.* 972. *sagittalis.*
C. sagittalis *β*. oblonga. *Mich. fl. amer.* 2. *p.* 55.
In pine-barrens: Virginia to Georgia. ☉. July. *v. v.* Flowers, as all the following, yellow.

2. C. hirsuta, erecta, ramosa; foliis simplicibus lineari-lanceolatis, stipulis superioribus decurrentibus brevissime bidentatis, racemis oppositifoliis, corollis calyce minoribus.—*Willd. sp. pl.* 3. *p.* 973. *parviflora.*
C. sagittalis *α*. linearis. *Mich. fl. amer.* 2. *p.* 55.
In sandy fields: New York to Carolina. ☉. June, July. *v. v.*

3. C. hirsuta, diffusa, ramosa; foliis simplicibus petiolatis subrotundo-ovalibus, stipulis summis vix decurrentibus brevissimis, racemis oppositifoliis elongatis, corollis calycem æquantibus. *ovalis.*
C. sagittalis *γ*. ovalis. *Mich. fl. amer.* 2. *p.* 55.
Anonymos rotundifolia. *Walt. fl. car.* 181.
In pine-barrens of Carolina and Georgia. ☉. June, July. *v. s. in Herb. Enslen.*

4. C. glabra, erecta, simplex; foliis lanceolato-oblongis, stipulis lanceolatis acuminatis decurrentibus, racemis oppositifoliis subtrifloris. *lævigata.*
C. sagittalis glabra, longioribus foliis, americana. *Pluk. alm.* 122. *t.* 277. *f.* 2.
In pine-woods of Virginia and Carolina. ☉. July. *v. v.*

565. PHASEOLUS. *Gen. pl.* 1180.

1. P. volubilis, totus pubescens; foliolis lato-ovatis impari subcordato, racemis geminatis folio longioribus, pedunculis geminatis, bracteis obsoletis, leguminibus pendulis.—*Willd. sp. pl.* 3. *p.* 1031. *Walt. fl. car.* 182. *perennis.*
P. paniculata. *Mich. fl. amer.* 2. *p.* 60.
Dolichos polystachyos. *Willd. sp. pl.* 3. *p.* 1040.
On the side of fertile hills, near the banks of rivers, among rocks: Pensylvania to Carolina. ♃. July, Aug. *v. v.*; *v. s. in Herb. Gronov.* Flowers purple, in great abundance, which gives this plant a very ornamental appearance.

vexillatus. 2. P. volubilis, pubescens; pedunculis petiolo crassioribus capitatis, alis subfalcatis difformibus, leguminibus linearibus strictis. *Willd. sp. pl.* 3. *p.* 1032.

Icon. *Jacq. hort. t.* 102. *Dill. elth. t.* 234. *f.* 302.

On the sea-coast of Carolina and Georgia. ⊙. July, Aug. *v. v.* Flowers large, purple.

helvolus. 3. P. volubilis, perennis, hirtellus; foliolis oblongo-ovalibus subdeltoideis obtusiusculis, capitulis longe pedunculatis, vexillis brevibus, alis expansis maximis, leguminibus tereti-linearibus.—*Willd. sp. pl.* 3. *p.* 1032.

Glycine umbellata. *Willd. sp. pl.* 3. *p.* 1058.

Icon. *Dill. elth. t.* 233. *f.* 300.

In dry gravelly soil, in old fields and pastures: New York to Carolina. *v. v.* Flowers of a rose-colour, carina purple.

trilobus. 4. P. volubilis, pubescens; foliolis inferioribus rhomboideo-ovalibus, superioribus trilobatis, capitulis longe pedunculatis, leguminibus linearibus. *Mich. fl. amer.* 2. *p.* 60.

P. vexillatus. *Walt. fl. car.* 182.

Glycine angulosa. *Willd. sp. pl.* 3. *p.* 1056.

On banks of rivers in gravelly soil: Pensylvania to Carolina. ⊙. June, July. *v. v.* Flowers resembling the foregoing species.

566. DOLICHOS. *Gen. pl.* 1181.

luteolus. 1. D. volubilis, pubescens; foliolis ovatis acuminatis, pedunculis folio longioribus, spicis brevibus subcapitatis, vexillo lato reflexo, alis rhomboideis.—*Willd. sp. pl.* 3. *p.* 1038.

Icon. *Jacq. hort. t.* 90.

In rice fields of Georgia. *Enslen.* ⊙. June, July. *v. v.* Flowers bright yellow.

567. PISUM. *Gen. pl.* 1184.

maritimum. 1. P. petiolis supra planiusculis, caule angulato, stipulis sagittatis, pedunculis multifloris. *Willd. sp. pl.* 3. *p.* 1071.

Icon. *Fl. dan.* 338. *Engl. bot.* 1046.

In rocky and sandy situations, near the sea-coast: Canada to New York. ♃. July, Aug. *v. v.* Flowers large, handsome, purple and blue.

568. LATHYRUS. *Gen. pl.* 1186.

1. L. caule alato, stipulis semisagittatis lanceolatis, foliolis sex lineari-lanceolatis acutis, pedunculis sub-3-floris.—*Willd. sp. pl.* 3. *p.* 1090. *palustris*
Icon. *Fl. dan.* 399. *Engl. bot.* 169.
In low grounds of Canada. *Michaux.* ♃. July, Aug. *v. s.* Flowers pale purple, of middle size.

2. L. caule nudo tetragono, stipulis semisagittatis lanceolatis acuminatis, foliolis quatuor oblongo-lanceolatis acutis mucronatis venoso-reticulatis, pedunculis folio longioribus sub-3-floris.—*Willd. sp. pl.* 3. *p.* 1091. *myrtifolius.*
In salt-marshes: Pensylvania and New York; particularly plenty about Lake Onondago. ♃. July, Aug. *v. v.* Resembles the foregoing species; flowers smaller, purple and rose-coloured.

3. L. caule nudo tetragono, stipulis semisagittatis ovatis acuminatis, foliolis numerosis subalternis ovatis obtusis mucronatis venosis, pedunculis folio brevioribus 5—10-floris.—*Willd. sp. pl.* 3. *p.* 1092. *venosus.*
In low meadows: Pensylvania. ♃. July, Aug. *v. s.* Flowers purple.

4. L. caule tetragono, stipulis semisagittatis linearibus, foliis 5-jugis: foliolis oblongo-ellipticis mucronatis, pedunculis 3–4-floris. *decaphyllus.*
On the banks of the Missouri. ♃. *v. s.* Flowers purple, large; pods large.

569. VICIA. *Gen. pl.* 1187.

1. V. pedunculis solitariis unifloris capillaribus, stipulis semisagittatis integerrimis, foliolis subsenis lineari-lanceolatis obtusiusculis, leguminibus parvis oblongis glabris.—*Willd. sp. pl.* 3. *p.* 1106. *pusilla.*
In low grassy grounds: Pensylvania to Virginia. ☉. July, Aug. *v. v.* Flowers exceeding small, white, with a tinge of red.

2. V. floribus binis subsessilibus, stipulis dentatis macula notatis, foliolis oblongo-ovatis retusis mucronatis, leguminibus erectis subtereti-linearibus glabris.—*Willd. sp. pl.* 3. *p.* 1104? *Walt. fl. car.* 183. *sativa.*
In Lower Carolina. ☉. July, Aug. *v. s.* Flowers purplish-blue.

3. V. pedunculis submultifloris folio brevioribus, stipulis *americana.*

semisagittatis dentatis, foliolis 8—12. elliptico-lanceolatis obtusis glabris.—*Willd. sp. pl.* 3. *p.* 1096.

In Pensylvania. *Muhlenberg.* ♃. +. Flowers the size of *V. sylvatica,* to which it bears a great resemblance.

Cracca. 4. V. spicis multifloris retrorsum imbricatis folio longioribus, stipulis semisagittatis lineari-subulatis integerrimis, foliolis numerosis lanceolato-oblongis pubescentibus.—*Willd. sp. pl.* 3. *p.* 1098.

Icon. *Fl. dan.* 804. *Mart. fl. rust.* 117.

In woods and meadows: Canada to Virginia. ♃. July, Aug. *v. v.* Flowers pale blue.

caroliniana. 5. V. pedunculis multifloris, floribus distantibus, stipulis ovato-lanceolatis integerrimis, foliolis 8—10. elliptico-lanceolatis glabriusculis, caule glabro.—*Willd. sp. pl.* 3. *p.* 1094. *Walt. fl. car.* 182.

V. parviflora. *Mich. fl. amer.* 2. *p.* 69.

In the mountains from Pensylvania to Carolina. ♃. July, Aug. *v. v.* Resembles the foregoing species; but the flowers are white, with a vexillum black on the tip, and a great deal smaller.

570. ASTRAGALUS. *Gen. pl.* 1208.

carolinianus. 1. A. caulescens, erectus; foliolis (41) oblongis subtus pubescentibus, spicis pedunculatis, bracteis lanceolatis pedunculi longitudine, leguminibus ovatis tumidis rostratis. *Willd. sp. pl.* 3. *p.* 1273.

Icon. *Dill. elth. t.* 39. *f.* 45.

In the mountains of Virginia and Carolina. ♃. June, July. *v. v.* Flowers pale yellow.

canadensis. 2. A. caulescens, diffusus; foliolis (21) utrinque glabris, leguminibus subcylindricis mucronatis.—*Willd. sp. pl.* 3. *p.* 1274.

Icon. *Dodart. mem. t.* 65. *Rob. ic.* 314.

In the mountains: Canada to Carolina. ♃. July, Aug. *v. v.* Flowers yellow.

glaber. 3. A. caulescens, glaber; foliolis lanceolato-oblongis subciliatis, spicis longe pedunculatis, floribus laxiusculis, leguminibus distantibus incurvis teretibus glabris.—*Mich. fl. amer.* 3. *p.* 66.

In the sands of Georgia. *Michaux.* ♃. +. Flowers white.

alpinus. 4. A. caulescens, procumbens; floribus pendulis racemosis,

leguminibus utrinque acutis pilosis. *Willd. sp. pl.* 3. *p.* 1297.
Icon. *Fl. dan.* 51. *Pall. astrag. t.* 32.
In Labrador. *Colmaster.* ♃. July, Aug. *v. s. in Herb. Dickson.* Flowers pale purple.

5. A. caulescens, procumbens; foliolis ovatis pubescentibus, spicis pedunculatis, leguminibus secundis rectis utrinque acuminatis pendulis.—*Mich. fl. amer.* 2. *p.* 67. *secundus.*
In the north of Canada. *Michaux.* Labrador. *Colmaster.* ♃. July, Aug. *v. s.* Flowers dark purple.

6. A. caulescens, glaber; foliolis linearibus alternis, spicis pedunculatis folio longioribus, bracteis minutis, leguminibus subteretibus rostratis. *tenellus.*
On the banks of the Missouri. *M. Lewis.* ♃. Aug. *v. s. in Herb. Lewis.* Flowers small, yellowish-white.

7. A. subacaulis, pilosissimus; foliolis ovalibus supra glabris, pedunculis folia subæquantibus, spicis paucifloris, leguminibus incano-villosissimis assurgentibus oblongis.—*Mich. fl. amer.* 2. *p.* 67. *villosus.*
In sandy pine-woods of Georgia. ♃. July, Aug. *v. s. in Herb. Enslen.*

571. OXYTROPIS. *Decand. astrag. p.* 24.

1. O. acaulis; foliolis obovato-lanceolatis sericeo-argenteis, scapis folia æquantibus, floribus capitatis, bracteis lanceolatis longitudine calycis sericei.—*Pers. syn.* 2. *p.* 331. *argentata.*
Astragalus argentatus. *Willd. sp. pl.* 3. *p.* 1310.
Icon. *Pall. astrag. t.* 48.
On the banks of Clarck's river. *M. Lewis.* ♃. July. *v. s. in Herb. Lewis.*

572. APIOS.

Glycine. *Gen. pl.* 1182.

1. A. volubilis, glabra; radice tuberosa, foliis impari-pinnatis: foliolis 5—7. ovato-lanceolatis superne angustatis, spicis confertis folio brevioribus. *tuberosa.*
Glycine Apios. *Willd. sp. pl.* 3. *p.* 1067.
Icon. *Bot. mag.* 1198. *Schkuhr handb.* 198. *Rob. ic.* 317.
In hedges and on mountain meadows: Pensylvania to Carolina. ♃. July. *v. v.* Flowers dark brown, sweet-scented; roots eatable, growing sometimes to an enormously large size.

frutescens. 2. A. volubilis; foliis impari-pinnatis novenis ovatis pubescentibus, racemis terminalibus bracteatis, leguminibus coriaceis.

Glycine frutescens. *Willd. sp. pl.* 3. *p.* 1067.

Anonymos frutescens. *Walt. fl. car.* 186.

In swamps of Virginia, Carolina, and Illinois. ♄. June, July. *v. v.* Flowers purplish-blue. It is a fine ornamental plant.

573. DALEA. *Hort. cliff. p.* 363. *Mich. fl. amer.* 3. *p.* 56.

Cliffortiana. 1. D. spicis oblongis confertis pedunculatis terminalibus sericeis, bracteis calycis longitudine, foliis subsexjugis lineari-cuneatis retusis apice subdentatis.—*Willd. sp. pl.* 3. *p.* 1336.

Psoralea Dalea. *Sp. pl.* 1076.

Icon. *Hort. cliffort. t.* 22.

In Georgia and Florida. ⊙. *v. v. in Hortis.* Flowers blue.

alopecuroides. 2. D. spicis cylindricis pedunculatis terminalibus sericeis confertis, bracteis calyce brevioribus, foliis 10—12-jugis ellipticis retusis mucronatis. *Willd. sp. pl.* 3. *p.* 1336.

D. Linnæi. *Mich. fl. amer.* 2. *p.* 57. *t.* 38.

On the banks of the Mississippi. ⊙. July, Aug. *v. v.* Flowers pale blue.

pedunculata. 3. D. glabriuscula; spicis oblongis axillaribus subconfertis brevibus, pedunculis folio triplo longioribus, bracteis minutis longitudine pedicellorum, dentibus calycis subulatis, foliis subsexjugis linearibus acutis mucronatis.

On the banks of the Mississippi. *Enslen.* ⊙. July, Aug. *v. s. in Herb. Enslen.* Flowers rose-coloured.

parviflora. 4. D. cano-pubescens; spicis filiformibus elongatis laxifloris axillaribus, pedunculis folio duplo longioribus, bracteis minutis, calycis tomentosi dentibus acutis brevibus, foliis sub-5-jugis linearibus obtusis.

On the banks of the Missouri. ⊙. July, Aug. *v. s.* Flowers small, white.

Psoralea esculenta.

574. PSORALEA. *Gen. pl.* 1210.

1. P. tota canescens; foliis breviter petiolatis trifoliatis, spicis laxifloris, floribus pedicellatis, calycibus villosissimis. *Mich. fl. amer.* 2. *p.* 57. *canescens.*
In barren sandy fields of Carolina and Georgia. July. *v. s.* Resembles in appearance *Cytisus Cajan.*

2. P. parce pubescens; foliis ternatis: foliolis lanceolatis, spicis oblongis, bracteis lato-cordatis longissime acuminatis, leguminibus rotundatis nervoso-rugosissimis. —*Mich. fl. amer.* 2. *p.* 58. *melilotoides.*
Melilotus flore violaceo, odore remisso. *Clayt. n.* 103.
Trifolium psoraloides. *Walt. fl. car.* 184.
In pine-barrens: Carolina to Florida. ♃. June—Aug. *v. s. in Herb. Leconte.* Flowers blue.

3. P. pubescens, ramosissima; foliis ternatis: foliolis ellipticis utrinque rugoso-punctatis, pedunculis axillaribus folio longioribus sub-3-floris. *tenuiflora.*
On the banks of the Missouri. *M. Lewis.* ♃. Sept. *v. s. in Herb. Lewis.* Flowers very small, pale blue.

4. P. pubescens; foliis ternatis: foliolis elongato-lanceolatis, petiolis crassis, spicis axillaribus folio vix longioribus densifloris, floribus pedicellatis, bracteis pedicello vix longioribus, dentibus calycis coloratis. *lanceolata.*
On the banks of the Missouri. ♃. July, Aug. *v. s.* Flowers bright blue, small.

5. P. undique argenteo-tomentosa; foliis ternatis: foliolis lanceolato-oblongis, spicis terminalibus interruptis, bracteis ovatis acuminatis, floribus suboppositis sessilibus. *argophylla.*
On the banks of the Missouri. ♃. *v. s.* Flowers purple: the silvery tomentum gives this plant a particularly handsome appearance.

6. P. undique villosa; foliis digitato-quinatis: foliolis lanceolatis inæqualibus planis integerrimis, spicis axillaribus densifloris, laciniis calycis lanceolatis corolla paulo brevioribus, leguminibus ensiformi-rostratis, radice fusiformi. *esculenta.*
On the banks of the Missouri. *M. Lewis.* ♃. June, July. *v. s. in Herb. Lewis.* Flowers pale blue.
Tota planta pilis longis albidis tecta. *Radix* fusiformis, crassa, exsiccatione farinosa. *Caulis* erectus, subramosus, teres, sulcatus, pedalis et ultra. *Folia* alterna,

petiolata, digitato-quinata. *Foliola* subpetiolata, lanceolata, utrinque acuta, integerrima, plana, supra glabra, punctis vix conspicuis confertissime adspersa, subtus pilosa, uncialia. *Petioli* communes teretes, folio longiores. *Stipulæ* persistentes, ad basin petiolorum oppositæ, oblongo-lanceolatæ, acutæ. *Spicæ* axillares, pedunculatæ, densifloræ, bracteatæ, foliis longiores. *Bracteæ* lato-ovatæ, acuminatæ, calyce breviores. *Flores* sessiles, cærulei, magnitudine et figura *Viciæ sativæ*. *Calyx* hirsutissimus, 5-fidus s. profunde 5-dentatus: dentibus lineari-lanceolatis: 2. lateralibus subfalcatis: inferus latior. *Corolla: Vexillum* obovatum, inferne utrinque glandula instructum, calyce paulo longiore. *Alæ* semi-ovatæ, vexillo breviores. *Carina* oblonga. *Legumen* calyce tectum, monospermum, hirsutum, rostro ensiformi, glabro, calyce longiore instructum. *Semen* reniforme, nigrum.

It approaches very near to *P. pentaphylla Willd. sp. pl.* 3. *p.* 1352. which is fully described and figured by B. Jussieu in *Act. par.* 1744. *p.* 381. *t.* 17. But not only the botanical difference, but the medical use made of the Mexican plant, proves their distinctness. The present plant produces the famous *Bread-root* of the American Western Indians, on which they partly subsist in winter. They collect them in large quantities, and if for present use, they roast them in the ashes, when they give a food similar to yams: if intended for winter use, they are carefully dried, and preserved in a dry place in their huts. When wanted for use, they are mashed between two stones, mixed with some water, and baked in cakes over the coals. It is a wholesome and nourishing food, and, according to Mr. Lewis's observation, agreeable to most constitutions; which, he observed, was not the case with the rest of the roots collected by those Indians for food. This root has been frequently found by travellers in the canoes of the Indians, but the plant which produces it has not been known until lately.

Lupinellus. 7. P. foliis quino-digitatis: foliolis angustissime linearibus, spica pauciflora, leguminibus ovoideis, uncinato-mucronatis, nervoso-rugosis.—*Mich. fl. amer.* 2. *p.* 58.

In barren fields of Carolina. ♃. *v. s. in Herb. Lyon.* Flowers very small. The leaves of the whole genus are covered with resinous dots.

575. MELILOTUS. *Tournef. inst. p.* 407. *t.* 229.

1. M. caule erecto, foliolis obovatis serratis, spicis axillaribus paniculatis, leguminibus dispermis rugosis acutis. *officinalis.*
Trifolium officinale. *Willd. sp. pl.* 3. *p.* 1355.
Icon. *Fl. dan.* 934. *Mart. fl. rust. t.* 72.
On the gravelly shores of rivers: Pensylvania to Virginia. ♂. ☉. June, July. *v. v.* Flowers white.

576. TRIFOLIUM. *Gen. pl.* 1211.

1. T. procumbens, pubescens; foliolis obovatis, stipulis oblique cordatis, capitulis multifloris, floribus pedicellatis demum omnibus reflexis, leguminibus sub-3-spermis.—*Willd. sp. pl.* 3. *p.* 1357. *reflexum.*
On dry hills and among rocks: Pensylvania, Kentucky, and the Carolina mountains. ♃. June, July. *v. v.* Flowers of a fine purplish-red.

2. T. repens; foliolis ovato-oblongis emarginatis serrulatis, capitulis umbellaribus, calycinis dentibus subæqualibus, leguminibus tetraspermis.—*Willd. sp. pl.* 3. *p.* 1359. *repens.*
Icon. *Fl. dan.* 990. *Mart. fl. rust.* 34.
In fields, pastures, and cleared lands on the mountains. ♃. May—Sept. *v. v.* This species, generally known by the name of *White Clover*, makes its appearance wherever lands are cleared of timber, in the most remote parts of the country; I have seen it springing forward on new plantations, from sixty to one hundred miles distant from any place where it naturally was found. A number of plants of this description have struck my attention, among which are *Verbascum Thapsus* and *Senecio hieracifolius* in particular, whose dissemination is really problematical.

3. T. erectum, pusillum; foliolis rotundato-obcordatis glabris margine ciliatis crenulatis, stipulis bifidis, capitulis umbellaribus pedunculatis reflexis paucifloris, corollis vix exertis, leguminibus subtrispermis.—*Mich. fl. amer.* 2. *p.* 58. *carolinianum.*
T. arvense. *Walt. fl. car.* 183.
T. comosum. *Willd. sp. pl.* 3. *p.* 1360?
In sandy fields, near Charlestown, South Carolina. ♃. June—Aug. *v. s.* Flowers small, white. In *Lam. encycl.* 8. *p.* 2. it has been suggested, that *T. como-*

sum of Linnæus and the present plant are the same, and I believe with very good reason, as I suppose the little difference between them may have been occasioned by culture.

microcephalum. 4. T. adscendens, pubescens; foliolis obovatis emarginatis denticulatis, stipulis ovatis acuminatis, capitulis pusillis pedunculatis paucifloris, floribus sessilibus, involucris ovatis aristatis, calycibus aristatis longitudine corollæ.

On the banks of Clarck's river. *M. Lewis.* ♃. July. *v. s. in Herb. Lewis.* Flowers exceeding small, pale purple.

pratense. 5. T. adscendens, glabriusculum; foliolis ovalibus subintegerrimis, stipulis aristatis, spicis densis ovatis, calycis dente infimo tubo corollæ monopetalæ inæqualis breviore.—*Willd. sp. pl.* 3. *p.* 1366.

Icon. *Fl. dan.* 989. *Mart. fl. rust.* 3.

In fields and woods, frequent. ♃. May—Sept. *v. v.* Common *Red Clover* is apparently in a native state, but very probably has been introduced.

pensylvanicum. 6. T. adscendens; caule ramosissimo flexuoso, foliolis ovato-ellipticis obtusis integerrimis, stipulis aristatis, spicis ovato-cylindraceis solitariis densis, calycis dente infimo corollæ monopetalæ breviore.—*Willd. enum. p.* 793.

In woods and fields: Pensylvania to Virginia. ♃. June—Sept. *v. v.* Resembles *T. medium* very much; flowers a fine red. It is known by the name of *Buffalo Clover.*

arvense. 7. T. erectum, ramosissimum, villosum; foliolis lineari-lanceolatis apice serrulatis, stipulis connatis apice subulatis, spicis villosissimis subcylindraceis, dentibus calycinis setaceis corolla longioribus.—*Willd. sp. pl.* 3. *p.* 1373.

Icon. *Fl. dan.* 724. *Curt. fl. lond.* 50.

In dry and sandy fields: Canada to Virginia. ☉. July, Aug. *v. v.* Flowers small, white; the wings have a red spot.

agrarium. 8. T. erectum, subpubescens; foliolis lanceolato-cuneatis obtusis: intermedio sessili, stipulis lanceolatis acutis, spicis ovalibus imbricatis, vexillis deflexis persistentibus, calycinis dentibus subulatis glabris inæqualibus.—*Willd. sp. pl.* 3. *p.* 1382.

T. aureum. *Pollich. fl. palat. n.* 708.

Lupinaster macrocephalus.

T. strepens. *Crantz. fl. austr.* 411. *n.* 8.
Icon. *Fl. dan.* 558.
In meadows: Pensylvania to Virginia. ☉. June—Aug. *v. v.* Flowers small, yellow.

9. T. procumbens; caule piloso; foliolis obovatis subemarginatis glabris, stipulis brevibus lanceolatis acutis, spicis ovalibus imbricatis, vexillis deflexis persistentibus sulcatis.—*Willd. sp. pl.* 3. *p.* 1383. *procumbens.*
Icon. *Fl. dan.* 796.
On dry gravelly soil: Pensylvania to Virginia. ☉. June—Aug. *v. v.* Flowers yellow, resembling those of the foregoing species.

577. LUPINASTER. *Mœnch. meth. suppl. p.* 50.

Pentaphyllon. *Pers. syn.* 2. *p.* 352.

1. L. foliolis novenis oblanceolatis, petiolis longissimis, stipulis cuneatis inciso-3-dentatis, calycinis dentibus filiformibus plumosis. *macrocephalus.*
At the head-waters of the Missouri. *M. Lewis.* ♃. April, May. *v. s. in Herb. Lewis.* Flowers yellowish-white, with a pale purple carina, very handsome and showy: the flower-heads sometimes grow to an extremely large size.
Caules plures, simplices, angulosi, pilosi. *Folia* petiolata, suprema opposita, novena. *Foliola* inæqualia, cuneato-lanceolata, inæqualiter mucronato-denticulata, supra glabra, subtus pilosa, lineato-venosa, uncialia. *Petioli* inferiores longi, subteretes. *Stipulæ* inferiores petiolo adnatæ, superiores liberæ, cuneato-oblongæ, apice inciso-3-dentatæ, margine serrulatæ, consistentia et pubescentia foliorum. *Capitulum* speciosum, dimidiatum. *Flores* lutescentes, carina purpurascente. *Cal.* campanulatus, subæqualiter 5-dentatus, villosissimus: dentibus subulatis piloso-plumosis corollam subæquantibus. *Corollæ: Vexillum* magnum, oblongo-lanceolatum, acutum, cæteras partes fructificationis involvens. *Alæ* carinæ adnatæ, lineares. *Carina* uncinata, integra, vexillo vix breviore. *Filamenta* 10. diadelpha: 1. liberum, reliqua superne libera, inferne monadelpha, carina adnata. *Germen* oblongum, glabrum. *Stylus* filiformis. *Stigma* simplex, hirsutum. *Legumen* 3–4-spermum, inflatum, calyce longius.

578. STYLOSANTHES. *Gen. pl.* 1203.

hispida. 1. S. caule uno latere pubescente, foliolis lanceolatis glabris, bracteis lanceolatis ciliatis, capitulis 2-3-floris.—*Mich. fl. amer.* 2. *p.* 75.
Trifolium biflorum. *Sp. pl.* 1088.
Arachis aprica. *Walt. fl. car.* 182.
erecta. α. S. caule simplici erecto superne breviter ramoso.
Icon. *Swartz. act. holm.* 1789. *t.* 11. *f.* 2.
procumbens. β. S. caule procumbente a basi ramoso.
In dry gravelly fields and woods; Pensylvania to Carolina. ♃. July, Aug. *v. v.* Flowers yellow, small.

579. GLYCYRRHIZA. *Gen. pl.* 1197.

lepidota. 1. G. foliolis oblongis acutis sericeo-villosis, leguminibus racemosis oblongis hispidis.—*Fraser. catal.*
On the banks of the Missouri. ♃. July, Aug. *v. s. v. v. s. fl.*

580. LESPEDEZA. *Mich. fl. amer.* 2. *p.* 70.

sessiliflora. 1. L. erecta; foliolis oblongis, fasciculis florum sessilibus numerosis, lomentis calyce minuto subnudatis acutis. *Mich. fl. amer.* 2. *p.* 70.
Hedysarum junceum. *Walt. fl. car.* 184.
Hedysarum sessiliflorum. *Lam. encycl.* 6. *p.* 414.
Hedysarum reticulatum. *Willd. sp. pl.* 3. *p.* 1194.
Medicago virginica. *Syst. veg.* 3. *p.* 573.
In old fields and on the borders of woods: New York to Carolina. ♃. July, Aug. *v. v.* Flowers purple.

capitata. 2. L. erecta, simplex; foliis subsessilibus: foliolis ellipticis, spicis capitatis brevi-pedunculatis axillaribus et conglobato-terminalibus, calycibus villosis longitudine corollæ lomentis calyce multo minoribus. *Mich. fl. amer.* 3. *p.* 71.
Hedysarum conglomeratum. *Lam. encycl.* 6. *p.* 416.
angustifolia. β. L. foliolis linearibus, pedunculis longioribus.
Trifolium erectum haud ramosum, foliis longis, &c. *Clayt. n.* 934.
In sandy soil, in old fields and borders of woods: New York to Carolina. ♃. June, July. *v. v.* From one to three feet high; flowers pale purple.

polystachya. 3. L. erecta, ramosa, villosissima; foliis subsessilibus: foliolis rotundato-ovalibus, spicis axillaribus longe-pe-

dunculatis, corollis calyce subæqualibus, lomento calycem subæquante.—*Mich. fl. amer.* 3. *p.* 71.
Hedysarum hirtum. *Willd. sp. pl.* 3. *p.* 1193.
Icon. *Mich. fl. amer.* 2. *t.* 40.
In copses and old fields: Pensylvania to Carolina. ♃. June—Aug. *v. v.* From two to three feet high; flowers small, white, with a red spot on the vexillum.

4. L. diffusa, ramosissima; foliis longe-petiolatis: foliolis ellipticis obtusis subtus adpresso-pilosis, racemis brevibus umbellatis, floribus geminatis, lomentis rhombeis reticulatis glabris. *violacea.*
Hedysarum violaceum. *Willd. sp. pl.* 3. *p.* 1195.
On gravelly dry soil: Virginia to Carolina. ♃. July. *v. v.* Flowers small, purple or violet.

5. L. diffusa, ramosa; foliolis oblongis obtusis subtus adpresso-pilosis, racemis petiolo longioribus, floribus geminis, lomentis ovatis reticulatis glabris. *divergens.*
Hedysarum divergens. *Willd. sp. pl.* 3. *p.* 1196.
In North America. *Muhlenberg.* ♃. +. Approaches very near to the foregoing species, and is probably only a variety.

6. L. procumbens, gracilis, pubescens; foliolis ovalibus, pedunculis longissimis, setaceis spicifloris, leguminibus calyce minuto nudatis.—*Mich. fl. amer.* 3. *p.* 70. *procumbens.*
Hedysarum Lespedeza. *Lam. encycl.* 6. *p.* 415.
In sandy and gravelly soil: New York to Carolina. ♃. June, July. *v. v.* Flowers violet-purple, with yellow spots.

7. L. prostrata; foliis petiolatis: foliolis ellipticis obtusis subtus pilis raris adpressis tecta, racemis axillaribus folio longioribus, lomentis ovatis pubescentibus. *prostrata.*
Hedysarum prostratum. *Willd. sp. pl.* 3. *p.* 1200.
In Pensylvania. *Muhlenberg.* ♃. +. Resembles *Hedysarum repens* greatly.

581. HEDYSARUM. *Gen. pl.* 1204.

1. H. erectum, glabriusculum; foliis ternatis oblongo-lanceolatis, stipulis filiformibus, floribus racemosis, articulis lomenti obtuse triangulis hispidis.—*Willd. sp. pl.* 3. *p.* 1187. *canadense.*
Icon. *Moris. hist.* 2. *s.* 2. *t.* 11. *f.* 9.
In sandy barren fields and woods: Canada to Carolina. ♃. July, Aug. *v. v.* Flowers middle-sized, of a handsome purplish-red.

canescens. 2. H. erectum, pilosum: caule angulato-ciliato hispido, foliis ternatis subrotundis subtus adpresso-pilosis, stipulis ovatis acuminatis, racemis paniculatis, bracteis cordatis, lomenti articulis triangularibus hispidis.—*Willd. sp. pl.* 3. *p.* 1188.

In dry barren woods: Virginia and Carolina. ♃. June—Aug. *v. v.* Flowers middle-sized, pale purple.

marylandicum. 3. H. erectum, ramosum, pilosum; foliis ternatis oblongis subtus villosis, stipulis subulatis, racemis paniculatis, lomentis triarticulatis, articulis rhombeis reticulatis pilosiusculis.—*Willd. sp. pl.* 3. *p.* 1189.

Icon. *Dill. elth. t.* 174. *f.* 171.

In dry swamps and woods: New York to Carolina. ♃. June—Aug. *v. v.* Flowers large, a fine purple, with a green spot at the bottom of the vexillum, which mark occurs in most species.

obtusum. 4. H. erectum, pubescens; foliis ternatis ovatis obtusis basi subcordatis, stipulis lanceolato-subulatis, panicula terminali, articulis lomenti semiorbiculatis reticulatis hispidis.—*Willd. sp. pl.* 3. *p.* 1190.

In dry swamps, old fields and woods: Pensylvania to Virginia. ♃. July, Aug. *v. v.* Flowers violet.

viridiflorum. 5. H. erectum, ramosum, pubescens; foliis ternatis ovato-oblongis subtus scabris, stipulis lanceolato-cuspidatis, racemis paniculatis bracteatis, lomentis asperis, articulis ovalibus.—*Willd. sp. pl.* 3. *p.* 1192.

Icon. *Pluk. alm. t.* 308. *f.* 5.

In woods and old fields: New Jersey to Carolina. ♃. July—Sept. *v. v.* About three feet high; flowers reddish-purple, which turns green after flowering.

glabellum. 6. H. erectum, glabrum; foliis ternatis ovatis obtusis subtus subglaucis, stipulis parvis subulatis, panicula terminali, lomenti articulis triangulo-rhomboideis.—*Mich. fl. amer.* 3. *p.* 73.

In fields and woods: Virginia and Carolina. ♃. July, Aug. *v. v.* Flowers purple, small.

bracteosum. 7. H. erectum, glabrum; foliis ternatis oblongo-ovalibus acuminatis, stipulis subulatis, racemo terminali sparsifloro, bracteis ovatis acuminatis striatis glabris, lomenti articulis subovalibus.—*Mich. fl. amer.* 2. *p.* 73.

In the western parts of Pensylvania and Virginia. ♃. July—Sept. *v. v.* Flowers large, purplish-red.

ciliare. 8. H. erectum, glabriusculum; foliis ternatis ovatis subtus

pubescentibus margine ciliatis, stipulis filiformibus, panicula terminali, lomenti articulis (2–3) semiorbiculatis hispidis.—*Willd. sp. pl.* 3. *p.* 1196.

In North America. *Muhlenberg.* ♃. +. Flowers small, violet.

9. H. erectum, glabrum; foliis ternatis oblongo-lanceolatis vel ellipticis glabris, stipulis subulatis panicula terminali, lomenti articulis (4) rhombeis pubescentibus.—*Willd. sp. pl.* 3. *p.* 1196. *paniculatum.*

Icon. *Pluk. mant. t.* 432. *f.* 6.

In dry woods and fields: New York to Carolina. ♃. June—Aug. *v. v.* Flowers purple.

10. H. stricte-erectum, glabrum, simplex; foliis petiolatis ternatis lineari-ellipticis glabris reticulato-venosis subtus glaucis, stipulis subulatis, panicula terminali pedunculata pauciflora. *strictum.*

In pine-woods of New Jersey. ♃. July, Aug. *v. v.* Flowers small, pale purple; seeds not known.

11. H. erectum, glabrum; foliis ternatis petiolatis ovato-oblongis longe-acuminatis glabris margine scabris, stipulis ovato-lanceolatis, panicula terminali, articulis lomenti triangularibus reticulatis glabris margine pubescentibus.—*Willd. sp. pl.* 3. *p.* 1198. *cuspidatum.*

In shady woods: Pensylvania and Virginia. ♃. July, Aug. *v. v.* Flowers violet.

12. H. erectum, simplex, pubescens, summitate frondosum; foliis ternatis ovatis longe acuminatis utrinque rariter adpresso-pilosis longissime petiolatis: impari rotundato-subrhomboideo, panicula terminali longissime pedunculata.—*Mich. fl. amer.* 2. *p.* 72. *acuminatum.*

In shady woods: New England to Carolina. ♃. July, Aug. *v. v.* Not above a foot high; flowers purple. It approaches near the foregoing species, and is the connecting link between that and the following.

13. H. erectum, simplex, glabriusculum; foliis ternatis lato-ovalibus acuminatis, scapo paniculato glabro radicali caule foliifero altiore, lomenti articulis subrotundo-triangularibus glabriusculis.—*Willd. sp. pl.* 3. *p.* 1198. *nudiflorum.*

In woods and old fields: New England to Carolina. ♃. June—Sept. *v. v.* About a foot high; flowers purple.

14. H. erectum, simplex; foliis longe petiolatis ternatis subrotundo-ovatis acuminatis, panicula scapiformi e caulis *glutinosum.*

basi, pedunculis piloso-viscosis, lomenti articulis oblongo-triangularibus glabriusculis.—*Willd. sp. pl.* 3. *p.* 1198.

In dry shady places, in the western parts of Pensylvania and Virginia. ♃. July, Aug. *v. v.* Flowers purple.

lineatum. 15. H. caule repente viridi lineato, foliis subsessilibus ternatis suborbiculatis, racemis elongatis laxe parvifloris, lomenti articulis lenticularibus.—*Mich. fl. amer.* 2. *p.* 72.

In Carolina. *Michaux.* ♃. +.

rotundifolium. 16. H. prostratum, hirsutum; foliis ternatis orbiculatis utrinque pilosis, stipulis rotundato-cordatis reflexis, racemis axillaribus et paniculato-terminalibus paucifloris, bracteis cordatis, lomenti articulis subrhomboideis reticulatis scabris.—*Mich. fl. amer.* 2. *p.* 72.

In rocky, dry situations: Pensylvania to Carolina. ♃. July, Aug. *v. v.* A handsome species: flowers purple.

alpinum. β. americanum. 17. H. erectum; foliis pinnatis: foliolis ovali-oblongis pilosis, stipulis subvaginantibus, leguminibus patulis glabris ex utraque sutura articulatis: articulis brevi-ovalibus. *Mich. fl. amer.* 2. *p.* 74.

In the north of Canada, and near the cataracts of the Allegany mountains. *Michaux.* ♃. +. Flowers purple.

582. ZORNIA. *Mich. fl. amer.* 2. *p.* 76. *Gmel. syst. veg.* 1096.

tetraphylla. 1. Z. foliis digitato-quadrifoliatis: foliolis lanceolatis glabris, spicis axillaribus pedunculatis, floribus alternis bibracteatis, bracteis suborbiculatis.—*Mich. fl. amer.* 2. *p.* 76.

Z. bracteata. *Gmel.*

Hedysarum tetraphyllum. *Lam. encycl.* 6. *p.* 405.

Anonymos bracteata. *Walt. fl. car.* 181.

Icon. *Mich. fl. amer.* 2. *t.* 41.

In sandy fields of Lower Carolina. ♃. July, Aug. *v. s. in Herb. Enslen.* About a foot high, very branching; flowers yellow.

583. ÆSCHYNOMENE. *Gen. pl.* 1202.

1. A. caule prostrato gracili viscido-pubescente, foliolis 7—9. obovalibus, pedunculis subbifloris, lomento pubescente profunda incisura articulata.—*Mich. fl. amer.* 3. *p.* 74. *viscidula.*
On the overflowed sands of Florida, and Cumberland island, Georgia. *Michaux.* ⊙. +.

2. A. caule erecto petiolisque tuberculato-hispido, foliis multijugis: foliolis linearibus obtusis, stipulis membranaceis semisagittatis, racemis simplicibus paucifloris, lomentis hispidis.—*Willd. sp. pl.* 3. *p.* 1163. *hispida.*
Hedysarum virginicum. *Willd. sp. pl.* 3. *p.* 1212.
On the banks and islands of the principal rivers, as far as the tide flows: Pensylvania to Carolina. ⊙. July, Aug. *v. v.; v. s. in Herb. Gronov.* Flowers yellow, finely veined with red.

584. SESBANIA. *Poiret in lam. encycl.* 7. *p.* 126.

1. S. glabra; foliis sub-20-jugis: foliolis oblongis obtusis glabris margine ciliatis, racemis pedunculatis paucifloris folio brevioribus, lomentis lato-lanceolatis compressis longe stipitatis subdispermis. *disperma.*
S. platycarpa. *Pers. syn.* 2. *p.* 316.
Robinia vesicaria. *Jacq. ic. rar.* 1. *t.* 48.
Phaca floridana. *Pers. syn.* 2. *p* 331.
Æschynomene platycarpa. *Mich. fl. amer.* 2. *p.* 75.
In overflowed places: Carolina and Florida. ⊙. *v. s.* Flowers yellow.

585. GLYCINE. *Gen. pl.* 1182.

1. G. caule volubili, foliis ternatis ovatis acutis glabris, racemis filiformibus sub-3-floris, floribus apetalis, leguminibus oblongis dispermis.—*Willd. sp. pl.* 3. *p.* 1055. *sarmentosa.*
G. monoica. *Schkuhr bot. annal.* 12. *p.* 20. *t.* 2.
In low grounds, among bushes: Virginia and Carolina. ⊙. July, Aug. *v. v.* It might with propriety form a separate genus, if the following species did not show the strong claim it has to be still considered a *Glycine.*

2. G. caule gracili retrorsum piloso, foliis ternatis ovatis glabris membranaceis, racemis caulinis pendulis laxis corollatis plerumque sterilibus, bracteis suborbiculatis *monoica.*

concavis, pedunculis radicalibus floribus apetalis fructiferis.—*Willd. sp. pl.* 3. *p.* 1055.

G. bracteata. *Sp. pl. p.* 754.

On the banks of rivulets in stony and shady places: New York to Carolina. ☉. July—Sept. *v. v.* The flowers on the stem resemble those of *Vicia Cracca*, they are pale blue, and seldom produce ripe fruit; the long radical tendrils have exceeding small flowers which produce a pod, generally with only one seed, which drops into the ground before maturity.

comosa. 3. G. caule volubili, foliis ternatis ovato-lanceolatis acutis hirsutis, racemis lateralibus pendulis confertifloris, floribus omnibus fructiferis.—*Willd. sp. pl.* 3. *p.* 1058.

In hedges near rivers and ditches: New York to Virginia. ♃. July—Sept. *v. v.* Flowers blue, of the size and shape of the preceding species, to which it has a strong resemblance, but differs in being a perennial and robust plant, besides the other characters given.

tomentosa. 4. G. caule volubili anguloso, foliis ternatis ovato-oblongis acutis pubescentibus, subtus rugoso-venosis tomentosis, racemis axillaribus petiolo brevioribus, leguminibus oblongis dispermis.—*Willd. sp. pl.* 3. *p.* 1061.

Icon. *Dill. elth. t.* 26. *f.* 29.

erecta. β. G. tomentosior; caule erecto, foliis oblongo-ovalibus.

Trifolium erectum. *Walt. fl. car.*....

In sandy ground, among hedges: β. on road sides and old fields: Virginia to Georgia. ♃. June—Aug. *v. v.* Flowers yellow.

reniformis. 5. G. erecta, humilis, pubescens; foliis omnibus simplicibus reniformi-rotundatis rugosis reticulatis, junioribus tomentosis, racemis subsessilibus paucifloris, leguminibus compresso-ovatis dispermis.

G. tomentosa γ. monophylla. *Mich. fl amer.* 2. *p.* 63.

Trifolium simplicifolium. *Walt fl. car.* 184.

In barren pine-woods: Carolina and Georgia. ♃. July, Aug. *v. s.* Flowers yellow.

586. GALACTIA. *Brown. Mich. fl. amer.* 2. *p.* 61.

mollis. 1. G. volubilis, molliter pubescens, subcanescens; foliis ternatis ovato-oblongis obtusis glabriusculis subtus glaucis, racemis axillaribus simplicibus elongatis paucifloris, leguminibus villosis.—*Mich. fl. amer.* 2. *p.* 61.

Hedysarum volubile. *Willd. sp. pl.* 3. *p.* 1204.

In pine-barrens: New Jersey to Carolina. ♃. July, Aug. *v. v.* Flowers purple, with yellow and white, the size of *Hedysarum paniculatum.*

2. G. prostrata, subvolubilis, glabriuscula; foliis ternatis elliptico-oblongis obtusis utrinque emarginatis utrinque glabris, racemis axillaribus simplicibus abbreviatis paucifloris, calycibus glabris, leguminibus villosis.—*Mich. fl. amer.* 2. *p.* 62. *glabella.*

Dolichos regularis. *Willd. sp. pl.* 3. *p.* 1049.

Ervum volubile. *Walt. fl. car.* 187.

In pine-woods and sandy fields: New Jersey to Carolina. ♃. June—Sept. *v. v.* The roots are fusiform, and extend to a great depth: the flowers, though not large, are extremely pretty, purple, red and white mixed.

587. CLITORIA. *Gen. pl.* 1183.

1. C. foliis ternatis ovatis calyce bracteis longiore 5-partito: laciniis subulatis incurvis divergentibus, leguminibus subensiformibus.—*Willd. sp. pl.* 3. *p.* 1069. *virginiana.*

Icon. *Dill. elth. t.* 76. *f.* 87.

In hedges: Virginia and Carolina. ♃. July, Aug. *v. v.* Flowers large, beautiful blue, very handsome and ornamental.

2. C. foliis ternatis, calyce bracteis lineari-lanceolatis multoties majore, oblongo-tubuloso 5-fido, legumine faciebus convexis toruloso, seminibus glutinosis. *Mich. fl. amer.* 2. *p.* 62. *Willd. sp. pl.* 3. *p.* 1070. *mariana.*

In hedges on the banks of rivulets: Virginia and Carolina. ♃. July—Sept. *v. v.* Flowers smaller and of a paler blue than the preceding.

588. ROBINIA. *Gen. pl.* 1195.

1. R. foliis impari-pinnatis, stipulis spinescentibus, racemis pendulis, calycis dentibus muticis, leguminibus lævibus.—*Willd. sp. pl.* 3. *p.* 1131. *Pseudacacia.*

Icon. *Schmidt arb.* 32. *Duham. arb. ed. nov.* 16. *Wangh. arb. t.* 7. *f.* 19. *Pluk. alm. t.* 4.

On dry fertile ridges on the mountains, from Canada to Carolina. ♄. May, June. *v. v.* Flowers white, sweet-scented. This highly ornamental tree is at the same time a most useful one: its wood is almost in-

corruptible, and particularly calculated for posts of gates and fences. It is universally known by the name of *False Acacia*, in America *Locust-tree.*

viscosa. 2. R. foliis impari-pinnatis, racemis axillaribus erectis confertifloris, calycibus acuminatis, ramis petiolis pedunculis leguminibusque glanduloso-viscosis.—*Willd. sp. pl.* 3. *p.* 1131.

R. glutinosa. *Bot. mag.* 560.

Icon. *Vent. desc. pl. nov. t.* 4. *Duham. arb. ed. nov.* 17.

On the banks of rivers in South Carolina, particularly on the Savannah. ♄. June, July. *v. v.* Flowers pale red, with white. This tree is highly ornamental; but its creeping roots are a great nuisance in small plantations.

hispida. 3. R. foliis impari-pinnatis: foliolis rotundato-ovalibus mucronatis, racemis axillaribus suberectis, calycibus acuminatis, caule subinermi, ramis pedunculis calycibus leguminibusque hispidis.—*Willd. sp. pl.* 3. *p.* 1132.

R. montana. *Bartr. catal.*

R. rosea. *Duham. arb. ed. nov.* 18.

Icon. *Bot. mag.* 311. *Schmidt arb.* 31. *Catesb. car.* 3. *t.* 20. *Mill. ic.* 244.

rosea. *β*. R. foliolis plerumque alternis, ramulis glabriusculis.

On the high mountains of Virginia and Carolina. ♄. May—Sept. *v. v.* Flowers large, a beautiful rose-colour, inodorous. This elegant little shrub is one of the highest ornaments of our gardens and plantations. The var. *β*. is less hispid, and grows to a considerable large upright shrub, whereas the original *hispida* is a low straggling plant.

589. INDIGOFERA. *Gen. pl.* 1205.

caroliniana. 1. I. herbacea, erecta; foliis pinnatis: foliolis obovalibus, spicis folio longioribus pedunculatis, floribus distantibus, leguminibus pendulis subdispermis reticulato-venosis.—*Walt. fl. car.* 187. *Mich. fl. amer.* 2. *p.* 68.

In sandy fields: Carolina to Florida. ♃. *v. s.* Flowers blue.

590. TEPHROSIA. *Pers. syn.* 2. *p.* 329.

1. T. erecta, candicanti-villosa; foliolis (17—21) ovali-oblongis acuminatis, racemo terminali brevi subsessili, leguminibus retrofalcatis villosis, calycibus lanatis.—*Pers. syn.* 2. *p.* 329. ***virginiana.***
Galega virginiana. *Pluk. alm. t.* 23. *f.* 2.
In sandy and dry woods: Canada to Florida. ♃. June, July. *v. v.* About a foot high; flowers very handsome, rose-coloured and yellowish white.

2. T. prostrata, pubescens; foliis pinnatis quinis subsessilibus: foliolis cuneato-obovatis obtusissimis supra glabris, subtus sericeis, pedunculis oppositifoliis elongatis sub-3-floris, leguminibus rectiusculis. ***chrysophylla.***
Galega villosa. *Mich. fl. amer.* 2. *p.* 67?
In Georgia. *Enslen.* ♃. July, Aug. *v. s. in Herb. Enslen.* Flowers purple. The singular circumstance of the nearly sessile leaves, gives it the appearance of a trifoliate plant, the lower pair representing stipulæ. Though Michaux's description answers very well in any other respect, I was led to doubt by his not mentioning the number of leaves, which is one of the most striking characters.

3. T. gracilis, humifusa, pubescens; foliolis (13—15) oblongo-ellipticis truncato-obtusis mucronatis, pedunculis oppositifoliis elongatis 3—5-floris, leguminibus oblongis falcatis hispidis. ***hispidula.***
Galega hispidula. *Mich. fl. amer.* 2. *p.* 68.
Galega spicata. *Walt. fl. car.* 188.
In pine-woods and on slate-hills: Virginia to Georgia. ♃. July—Sept. *v. v.* Flowers pale red.

591. LOTUS. *Gen. pl.* 1212.

1. L. foliis ternatis subsessilibus oblongis acutis sericeo-villosis, pedunculis axillaribus unifloris folio longioribus, flore unibracteato, calycinis laciniis linearibus, legumine glabro longissimo. ***sericeus.***
On the banks of the Missouri. ☉. *v. s.* Flowers yellow.

592. MEDICAGO. *Gen. pl.* 1214.

lupulina. 1. M. spicis ovalibus, leguminibus reniformibus monospermis stipulis integerrimis, foliolis obovatis, caulibus procumbentibus.—*Willd. sp. pl.* 3. *p.* 1406.
Icon. *Schkuhr handb. t.* 212.
In gravelly soil, on road sides: Canada to Carolina. ☉. June—Sept. *v. v.* Flowers small, yellow.

intertexta. 2. M. pedunculis subbifloris, leguminibus cochleatis ovalibus, aculeis pubescentibus setaceis distichis adpressis, stipulis ciliato-dentatis, foliolis obovatis dentatis.—*Willd. sp. pl.* 3. *p.* 1411.
M. polymorpha intertexta. *Sp. pl.* 1098.
Icon. *Schkuhr handb.* 212. *b.*
In sandy fields: Carolina. July, Aug. *v. v.* Flowers yellow.

Note.—In addition to the observations under *Psoralea esculenta*, p. 475. it may be interesting to state, that A. B. Lambert, Esq. raised in the summer of 1812 a number of plants, the seeds of which were taken out of a specimen collected in the year 1805 by M. Lewis, Esq. Also, that this highly interesting plant is now growing at Messrs. Frasers, Sloane Square.

XVII. SYNGENESIA.

I. ÆQUALIS.

* *Ligulatæ.*

593. CICHORIUM. *Recept.* subpaleaceum. *Pappus* polyphyllus, paleaceus. *Cal.* calyculatus.
594. APARGIA. *Recept.* nudum. *Pappus* plumosus, sessilis. *Cal.* imbricatus.
595. SCORZONERA. *Recept.* nudum. *Pappus* plumosus, substipitatus. *Cal.* imbricatus, squamis margine scariosis.
596. LEONTODON. *Recept.* nudum. *Pappus* plumosus, stipitatus. *Cal.* imbricatus, squamis laxiusculis.
597. CHONDRILLA. *Recept.* nudum. *Pappus* pilosus, stipitatus. *Cal.* calyculatus. *Flosculi* multiplici serie. *Sem.* rugosa.
598. PRENANTHES. *Recept.* nudum. *Pappus* simplex, subsessilis. *Cal.* calyculatus. *Flosculi* simplici serie.
599. LACTUCA. *Recept.* nudum. *Pappus* simplex, stipitatus. *Cal.* imbricatus, cylindricus, margine membranaceo. *Sem.* lævia.
600. SONCHUS. *Recept.* nudum. *Pappus* pilosus, sessilis. *Cal.* imbricatus, ventricosus.
601. HIERACIUM. *Recept.* nudiusculum. *Pappus* simplex, sessilis. *Cal.* imbricatus, ovatus.
602. KRIGIA. *Recept.* nudum. *Pappus* membranaceus, 5-phyllus, setis 5. iterstinctis. *Cal.* polyphyllus, simplex.
603. HYOSERIS. *Recept.* nudum. *Pappus* duplex: exterior capillaceus; interior paleaceo-aristatus. *Cal.* calyculatus.
604. TROXIMON. *Recept.* nudum, puncticulatum. *Pappus* pilosus, sessilis. *Cal.* oblongus, conicus, simplex, aut squamis inæqualibus imbricatus.

** *Flosculosæ.*

605. STOKESIA. *Recept.* nudum. *Pappus* 4-setosus. *Cal.* foliaceus, subimbricatus. *Cor.* radiata: corollulis radii infundibuliformibus, irregularibus.

606. ARCTIUM. *Recept.* paleaceum. *Pappus* setoso-paleaceus. *Cal.* globosus: squamis apice hamis inflexis.

607. CNICUS. *Recept.* villosum. *Pappus* plumosus. *Cal.* imbricatus, ventricosus.

608. CARDUUS. *Recept.* villosum. *Pappus* capillaris. *Cal.* imbricatus, ventricosus.

609. LIATRIS. *Recept.* nudum. *Pappus* plumosus, coloratus. *Cal.* oblongus, imbricatus.

610. VERNONIA. *Recept.* nudum. *Pappus* duplex: exterior paleaceus, brevis; interior capillaris. *Cal.* ovatus, imbricatus.

611. KUHNIA. *Recept.* nudum. *Pappus* plumosus. *Cal.* imbricatus, cylindraceus.

612. EUPATORIUM. *Recept.* nudum. *Pappus* pilosus. *Cal.* imbricatus, cylindricus. *Stylus* semibifidus, longus.

613. MIKANIA. *Recept.* nudum. *Pappus* pilosus s. plumosus. *Cal.* 4—6-phyllus, 4—6-florus. *Stylus* semibifidus, longus.

614. CHRYSOCOMA. *Recept.* nudum. *Pappus* pilosus. *Cal.* imbricatus. *Stylus* vix flosculis longior.

615. CACALIA. *Recept.* nudum. *Pappus* pilosus. *Cal.* cylindricus, basi calyculatus.

616. SPARGANOPHORUS. *Recept.* nudum. *Sem.* coronatum cupula subcartilaginea, integerrima, nitida. *Cal.* subglobosus, imbricatus: squamis apice recurvatis.

617. HYMENOPAPPUS. *Recept.* nudum. *Pappus* polyphyllus, paleaceus. *Cal.* polyphyllus, patens.

618. MELANANTHERA. *Recept.* paleaceum: paleis flosculos inferne amplexantibus. *Pappus* aristis inæqualibus, 4–5-inermibus. *Cal.* imbricatus: squamis ovatis, appressis, subæqualibus.

619. MARSHALLIA. *Recept.* paleaceum. *Pappus* paleis 5. membranaceis, acuminatis. *Cal.* imbricatus: squamis sublanceolatis incumbentibus.

620. SANTOLINA. *Recept.* paleaceum. *Pappus* nullus. *Cal.* imbricatus, hemisphæricus: squamis carinatis apice scariosis.

II. SUPERFLUA.

* *Discoidei.*

621. ARTEMISIA. *Recept.* subnudum. *Pappus* nullus. *Cor.* radii nullæ. *Cal.* imbricatus: squamis rotundatis, conniventibus.

622. TANACETUM. *Recept.* nudum. *Pappus* submarginatus. *Cor.* radii obsoletæ, 3-fidæ. *Cal.* imbricatus, hemisphæricus: squamis acuminatis.

623. BACCHARIS. *Recept.* nudum. *Pappus* pilosus. *Floscul.* feminei hermaphroditis immixti. *Cal.* imbricatus, cylindricus: squamis ovatis subcoriaceis.

624. CONYZA. *Recept.* nudum. *Pappus* simplex, capillaris. *Cor.* radii 3-fidæ. *Cal.* imbricatus: squamis linearibus aut ovatis.

625. GNAPHALIUM. *Recept.* nudum. *Pappus* plumosus. *Cal.* imbricatus: squamis marginalibus rotundatis, scariosis, coloratis.

** *Radiati.*

626. BELLIS. *Recept.* nudum. *Pappus* nullus. *Cal.* hemisphæricus: squamis æqualibus. *Sem.* obovata.

627. CHRYSANTHEMUM. *Recept.* nudum. *Pappus* nullus. *Cal.* hemisphæricus, imbricatus; squamis intimis scariosis.

628. PYRETHRUM. *Recept.* nudum. *Pappus* marginatus. *Cal.* squamis acutiusculis margine scariosis.

629. ARNICA. *Recept.* nudum. *Pappus* simplex, pilosus. *Cal.* hemisphæricus; foliolis subæqualibus disco longioribus. *Cor.* radii (luteæ) sæpius filamentis 5. absque antheris.

630. CINERARIA. *Recept.* nudum. *Pappus* simplex. *Cal.* simplex, polyphyllus, æqualis.

631. SENECIO. *Recept.* nudum. *Pappus* simplex. *Cal.* cylindricus, calyculatus: squamis apice sphacelatis.

632. TUSSILAGO. *Recept.* nudum. *Pappus* simplex. *Cor.* femineæ ligulatæ s. edentulæ. *Cal.* simplex: squamæ æquales, discum æquantes, submembranaceæ.

633. INULA. *Recept.* nudum. *Pappus* simplex. *Cal.* imbricatus. *Cor.* radii numerosæ (luteæ).

634. ERIGERON. *Recept.* nudum. *Pappus* pilosus. *Cor.* radii capillares (coloratæ).

635. SOLIDAGO. *Recept.* nudum, punctis exaratum. *Pappus* simplex. *Cor.* radii circiter 5. (flavæ). *Cal.* squamæ imbricatæ, clausæ.

636. ASTER. *Recept.* nudum, scrobiculatum. *Pappus* pilosus. *Cor.* radii plures, sæpius 10. (aut pauciores, colorati). *Cal.* imbricati squamæ inferiores patulæ.

637. DONIA. *Recept.* nudum, favosum. *Pappus* 3–4-aristatus, deciduus. *Cor.* radii plures (30–35 flavi). *Cal.* hemisphæricus, imbricatus: squamis interioribus cartilagineis, coloratis.

638. BŒBERA. *Recept.* nudum. *Pappus* pilosus. *Cal.* duplex: exterior polyphyllus, interior octophyllus.

639. ACTINELLA. *Recept.* nudum. *Pappus* polyphyllus (4—6), paleaceo-aristatus. *Cal.* polyphyllus, æqualis.

640. HELENIUM. *Recept.* nudum: radii paleaceum. *Pappus* 5-aristatus. *Cor.* radiis 3-fidis. *Cal.* simplex, multipartitus.

641. BOLTONIA. *Recept.* favosum. *Pappus* dentato-aristatus: aristis duabus oppositis interdum elongatis. *Cor.* radii plurimæ. *Cal.* imbricatus.

642. SIEGESBECKIA. *Recept.* paleaceum. *Pappus* nullus. *Radius* dimidiatus. *Cal.* exterior 5-phyllus, proprius patens. *Sem.* sub-4-gona.

643. PHÆTHUSA. *Recept.* paleaceum. *Pappus* nullus. *Flosculi* radii 1—3. *Cal.* imbricatus. *Sem.* hispida.

644. ECLIPTA. *Recept.* paleaceum. *Pappus* nullus. *Cor.* disci 4-fidæ. *Sem.* subcompresso-marginata, obsolete 2–3-dentata.

645. ANTHEMIS. *Recept.* paleaceum: paleis planis, apice acuminatis, rigidis. *Pappus* nullus s. margo membranaceus. *Flores* radii plures quam 5. *Cal.* hemisphæricus, subæqualis.

646. ACHILLEA. *Recept.* paleaceum. *Pappus* nullus. *Flosc.* radii circiter 5., dilatati. *Cal.* ovatus, imbricatus. (*Flores* corymbosi.)

647. TETRAGONOTHECA. *Recept.* paleaceum. *Pappus* nullus. *Cal.* monophyllus, 4-gonus, 4-partitus, latissimus.

648. HELIOPSIS. *Recept.* paleaceum, conicum. *Pappus* nullus. *Cor.* radii lineares, magnæ. *Cal.* imbricatus: squamis ovatis, lineatis. *Sem.* 4-gona.

649. BUPHTHALMUM. *Recept.* paleaceum. *Pappus* margo obsoletus s. 4-dentatus. *Cal.* foliaceus. *Sem.* latera, præsertim radii, marginata.

650. AMELLUS. *Recept.* paleaceum. *Pappus* pilosus. *Cor.* radii indivisæ. *Cal.* imbricatus.

651. VERBESINA. *Recept.* paleaceum. *Pappus* aristatus. *Flosc.* radii circiter 5 *Cal.* duplici ordine.

652. ZINNIA. *Recept* paleaceum. *Pappus* aristis 2. erectis. *Radius* 5-florus, persistens. *Cal.* imbricatus, ovato-cylindricus.

III. FRUSTRANEA.

653. BIDENS. *Recept* paleaceum: paleis extimis quasi calycem communem constituentibus. *Pappus* aristis 2. s. 4. retrorsum. *Flores* flosculosi aut etiam radiati: radiis neutris aut imperfecte masculis. *Cal.* subæqualis, calyculatus.

654. COREOPSIS. *Recept.* et *Cal. comm.* Bidentis. *Flores* radiati: radiis neutris, prolixis (luteis). *Sem.* compressa aut emarginata, aut bidentata, aut etiam bisetosa: setis inermibus nec retrorsum aculeatis.

655. HELIANTHUS. *Recept.* paleaceum, planum. *Pappus* diphyllus, caducus. *Cal.* imbricatus, subsquarrosus, foliaceus.

656. GALARDIA. *Recept.* paleaceum, hemisphæricum. *Pappus* paleaceus, polyphyllus. *Cor.* radii 3-partitæ. *Cal.* polyphyllus, planus.

657. RUDBECKIA. *Recept.* paleaceum, conicum. *Pappus* margine 4-dentato. *Cal.* duplici ordine squamarum.

658. CENTAUREA. *Recept.* setosum. *Pappus* pilosus. *Cor.* radii infundibuliformes, irregulares. *Cal.* varius.

IV. NECESSARIA.

659. CHAPTALIA. *Recept.* nudum. *Pappus* capillaris. *Flosculi* radii in duplici serie difformes, feminei. *Flosculi disci masculi* bilabiati.

660. SILPHIUM. *Recept.* paleaceum. *Pappus* marginato-bicornis. *Cal.* squarrosus, foliaceus. *Sem.* compressa, obcordata, marginata.

661 POLYMNIA. *Recept.* paleaceum. *Pappus* nullus. *Cal.* duplex: exterior 4–5-phyllus; interior 10-phyllus, foliolis concavis.

662. CHRYSOGONUM. *Recept.* paleaceum. *Pappus* 1-

phyllus, 3-dentatus. *Cal.* 5-phyllus. *Sem.* calyculo 4-phyllo involuta.

663. BALTIMORA. *Recept.* paleaceum. *Pappus* nullus. *Flosc.* radii 5. *Cal.* cylindricus, polyphyllus. *Sem.* 3-quetra.

664. PARTHENIUM. *Recept.* paleaceum, planum. *Pappus* nullus. *Cal.* 5-phyllus. *Sem.* obovata.

665. IVA. *Recept.* pilosum. *Pappus* nullus. *Cor.* radii 5. *Antheræ* approximatæ, non coalitæ. *Styli* 2. longi. *Cor.* radii 5. femineis minimis. *Cal.* 3-phyllus.

666. AMBROSIA. *Monoica. Masc. Recept.* nudum. *Antheræ* approximatæ, non coalitæ. *Cal.* 1-phyllus, hemisphæricus, multiflorus. *Fem. Cal.* 1-phyllus, subinteger aut 5-dentatus, 1-florus. *Cor.* nulla. *Styli* 2. *Nux* e calyce indurato, 1-sperma.

667. XANTHIUM. *Monoicum. Masc. Recept.* paleaceum. *Antheræ* approximatæ, non coalitæ. *Cal.* polyphyllus, imbricatus, hemisphæricus, multiflorus. *Fem. Cal.* involucrum 2-phyllum, 2-florum. *Cor.* 0. *Stigm.* 2. *Drupa* sicca, muricata, 2-fida. *Nucleus* 2-locularis.

V. SEGREGATA.

668. ELEPHANTEPUS. *Recept.* nudum. *Pappus* setaceus. *Calyculus* 4-florus. *Corollulæ* ligulatæ, hermaphroditæ.

I. *ÆQUALIS.*

593. CICHORIUM. *Gen. pl.* 1251.

Intybus. 1. C. floribus axillaribus geminis subsessilibus, foliis runcinatis. *Willd. sp. pl.* 3. *p.* 1624.

Icon. *Fl. dan.* 907. *Engl. bot.* 539.

In fields and on road sides: Pensylvania, near Philadelphia. Most certainly introduced from Europe. ♃. July, Aug. *v. v.* Flowers beautiful blue.

594. APARGIA. *Gen. pl.* 1232.

1. A. scapis ramosis declinatis squamosis, foliis lanceolatis runcinato-pinnatifidis glabriusculis. *Willd. sp. pl.* 3. *p.* 1550. *autumnalis.*
Leontodon autumnale *Sp. pl.* 1123.
Hedypnois autumnalis. *Smith fl. brit.* 2. *p.* 826.
Icon. *Fl. dan.* 501. *Engl bot.* 830.
In pastures and on road sides: New England. ♃. Aug. Sept *v. v.* Flowers golden-yellow, outside red. It is probably an introduced plant.

595. SCORZONERA. *Gen. pl.* 1230.

1. S. caule erecto 3-floro, pedunculis elongatis, foliis lanceolatis acutissimis acute-pinnatifidis interdum rariter dentatis. *Mich fl. amer.* 2. *p.* 89. *pinnatifida.*
Leontodon carolinianum. *Walt. fl. car.* 192.
In waste places: Carolina. *Michaux.* +.

596. LEONTODON. *Gen. pl.* 1237.

1. L. calyce exteriore reflexo, scapo unifloro, foliis runcinatis glabris, laciniis lanceolatis dentatis. *Willd. sp. pl.* 3. *p.* 1544. *Taraxacum.*
Icon. *Fl. dan.* 574. *Engl. bot.* 510.
Common in fields and grass plots; probably introduced. ♃. April—July. *v. v.* Flowers yellow; it is generally known by the name of *Dandelion.* There is another species, found in shady wet woods, which I consider indigenous, but I have no materials in hand to give its description.

597. CHONDRILLA. *Gen. pl.* 1235.

1. C. glaberrimum, multicaule; foliis lineari-lanceolatis integerrimis, pedunculis 2–3. longissimis subaphyllis unifloris. *lævigata.*
In Lower Virginia. ♂. Aug. Sept. *v. v.* Flowers bright yellow; pappus turns a pale red; the peduncles are from six to ten inches long, with a few linear, small leaves.

598. PRENANTHES. *Gen. pl.* 1236.

juncea. 1. P. caule virgatim-ramosissimo sulcato glabro, foliis caulinis remotis subulatis brevissimis, ramulis unifloris, calycibus 5-fidis 5-floris: foliolis margine membranaceis.

On the banks of the Missouri. ♃. *v. s.* Flowers purple; it has a striking resemblance to *Chondrilla juncea*. but the leaves are shorter, and the pappus entirely sessile; the radical leaves I have not seen.

altissima. 2. P. caule ramoso, foliis trilobis petiolatis angulatis denticulatis margine scabris, racemis axillaribus, floribus nutantibus, calycibus sub-5-floris.—*Willd. sp. pl.* 3. *p.* 1537.

Icon. *Pluk. alm. t.* 317. *f.* 2.

In shady woods: Canada to Virginia. ♃. July—Sept. *v. v.* Flowers yellow. Generally a very tall robust plant.

cordata. 3. P. caule superne paniculato, foliis petiolatis cordatis dentatis ciliatis, floralibus sessilibus oblongis integerrimis, panicula laxa racemiflora, floribus nutantibus, calycibus 6-fidis 6-floris.—*Willd. hort. berol.* 25.

In shady woods, about rocks; New York to Virginia. ♃. Aug.—Oct. *v. v.* Flowers pale yellow. It is an intermediate species between the preceding and *P. alba.*

virgata. 4. P. glabra; caule simplicissimo, foliis omnibus lyrato-sinuatis, racemulis subsecundis, floribus pendulis, calycibus glabris 8-fidis 10-floris.—*Mich. fl. amer.* 2. *p.* 83.

P. autumnalis. *Walt. fl. car.* 193.

In sandy fields, near ditches: New Jersey to Carolina. ♃. Aug. Sept. *v. v.* From three to six feet; flowers pale purple. This plant has a very fine effect in large plantations. Michaux quotes Gronovius; but his *P. autumnalis* belongs to *P. rubicunda.*

simplex. 5. P. caule simplicissimo, foliis superioribus lineari-lanceolatis integerrimis, radicalibus lanceolatis sinuatis, racemo terminali simplicissimo, floribus nutantibus, calycibus sub-8-floris.

P. virgata. *Willd. sp. pl.* 3. *p.* 1533.

In Carolina. *Enslen.* ♃. July, Aug. *v. s. in Herb. Enslen.* About two feet high; flowers purple.

Prenanthes serpentaria.

6. P. foliis lato-lanceolatis in petiolum attenuatis inæqualiter angulato-dentatis, panicula fasciculis terminalibus paucifloris nutantibus, calycibus hirsutis 10—12-fidis sub-20-floris.—*Mich. fl. amer.* 2. *p.* 84. *crepidina.*

In Illinois and on the high mountains of Carolina. *Michaux.* ♃. +.

7. P. foliis radicalibus angulato-hastatis dentatis sublobatis, caulinis subrotundo-ovatis dentatis petiolatis, summis lanceolatis, panicula laxa, fasciculis terminalibus nutantibus, calycibus 8-fidis 9-10-floris.—*Willd. sp. pl.* 3. *p.* 1536. *alba.*

P. suavis. *Parad. lond.* 85.

Icon. *Bot. mag.* 1079.

In shady woods: New England to Carolina. ♃. Aug. Sept. *v. v.* About two feet high; calyces purple, flowers white.

8. P. foliis ciliatis, radicalibus hastato-angulatis subintegerrimis, inferioribus obovatis basi attenuatis subangulatis, summis lanceolatis integerrimis, racemo simplici, floribus nutantibus.—*Willd. sp. pl.* 3. *p.* 1537. *rubicunda.*

P. alba β. *Sp. pl.* 1122.

P. autumnalis. *Gron. fl. virg.* 1. *p.* 89.

In shady woods: Pensylvania to Carolina. ♃. Aug.—Oct. *v. v.* Resembles the preceding; not above eighteen inches high.

9. P. foliis dentatis asperis, radicalibus palmato-sinuatis, caulinis longe petiolatis sinuato-pinnatifidis subtrilobis: lacinia intermedia 3-partita, summis lanceolatis, racemis terminalibus subpaniculatis brevibus nutantibus, calycibus 8-fidis 12-floris. *Serpentaria.*

On the mountains of Virginia and Carolina. ♃. Aug.—Oct. *v. v.* About two feet high; flowers pale purple. This plant is known by the inhabitants under the name of *Lion's-foot*, and is in high esteem as a specific in curing the bite of the rattlesnake. During my travels through the mountains of Virginia, I had an opportunity of being a witness of the efficacy of this remedy. A man living in Cove-mountains, near the Sweet-springs, was bit in the foot by a Mocassin snake, a species considered the most dangerous. An inflammation and swelling of his whole leg took place immediately; but by taking the milky juice of this plant boiled in milk, inwardly, and applying to the wound the steeped leaves, which were very frequently changed, he was cured in a few days. As this plant deserves

the attention of the physician, I have given a figure of it, it being frequently confounded with another species of this genus, which probably may not have quite so strong an effect, as the inhabitants are very careful to have the true *Lion's-foot,* in case of accidents happening, and usually call the other species of Prenanthes *False Lion's-foot.* Gronovius, in his Flora, pag. 113, mentions Dr. Witt's *Snake-root* under *P. autumnalis* or Willdenow's *rubicunda*, as a remedy for the bite of the rattlesnake; which shows that he had information of the use made of this plant, though he did not know the genuine species. In the Banksian Herbarium is a specimen of *P rubicunda*, with the following note in the hand-writing of Clayton: "This is the rattlesnake-root that Dr. Witt supposes to be the best cure for the bite of the snake, a very odd plant, hardly two leaves alike upon a plant, as to shape or the indentings of the leaves."

racemosa. 10. P. caule simplici, foliis omnibus indivisis lævibus, radicalibus ovali-lanceolatis, caulinis semiamplexicaulibus, racemo oblongo hirsutissimo, fasciculis cernuis, calycibus 8–9-partitis 9—12-floris. *Mich. fl. amer.* 2. *p.* 84.

In the northern parts of Canada. *Michaux.* +.

illinoensis. 11. P. caule simplici, foliisque asperrimis, foliis omnibus indivisis ovali-lanceolatiss, racemo longo, fasciculis subsessilibus erectis hirsutis. *Pers. syn.* 2. *p.* 366.

P. aspera. *Mich. fl. amer.* 2. *p.* 83.

In natural meadows in the Illinois country. *Michaux.* +.

599. LACTUCA. *Gen. pl.* 1234.

elongata. 1. L. foliis subtus lævibus, inferioribus runcinatis integerrimis amplexicaulibus, infimis dentatis, summis lanceolatis, floribus corymboso-paniculatis. *Willd. enum.* 817. *Willd. sp. pl.* 3. *p.* 1525.

L. longifolia. *Mich. fl. amer.* 2. *p.* 85 ?

In woods, on road sides, in fertile soil: Canada to Carolina. ♂. Aug. Sept. *v. v.* From three to six feet high. Flowers small, pale yellow.

graminifolia. 2. L. caule erecto simplici, foliis inermibus plerisque indivisis basi simplici longissime linearibus, panicula aphylla laxa, ramis rarifloris, floribus omnibus pedunculatis. *Mich. fl. amer.* 2. *p.* 85.

In Lower Carolina. *Michaux.* +.

600. SONCHUS. *Gen. pl.* 1233.

1. S. pedunculis calycibusque hispidis subumbellatis, foliis runcinatis denticulatis basi cordatis, radice repente. *Smith fl. brit.* 2. *p.* 817. *Willd. sp. pl.* 3. *p.* 1512. *arvénsis.*
Icon. *Engl. bot.* 674. *Curt. fl. lond.* 53.
Among rubbish and in cultivated grounds: Pensylvania. ♃. Aug. Sept. *v. v.* Flowers large, deep yellow.

2. S. pedunculis subtomentosis umbellatis, calycibus glabris, foliis oblongo-lanceolatis amplexicaulibus denticulatis subsinuatis. *Willd. sp. pl.* 3. *p.* 1514. *oleraceus.*
Icon. *Fl. dan.* 682. *Curt. fl. lond.* 58.
A common weed in most gardens and fields. ☉. July—Sept. *v. v.* Flowers yellow.

3. S. pedunculis hirsutis nudis, floribus paniculatis, foliis lyratis basi cordatis subtus hirtis. *Willd. sp. pl.* 3. *p.* 1519. *macrophyllus.*
S. canadensis. *Frœlich. in usteri annal.* 1. *p.* 29.
Chondrilla sylvestris alta. *Gronov. virg.* 115.
In shady low grounds, near springs: Pensylvania to Carolina. ♃. Aug. Sept. *v. v.* From four to seven feet high; flowers blue, the size of *Cichorium Intybus;* root tuberous.

4. S. pedunculis hirsutis nudis, floribus racemosis bracteatis, foliis runcinatis basi sagittatis glabris subtus glaucis. *Willd. sp. pl.* 3. *p.* 1519. *alpinus.*
S. montanus. *Lam. encycl.* 3. *p.* 401.
S. cæruleus. *Smith fl. brit.* 2. *p.* 815.
S. canadensis. *Sp. pl.* 1115.
Hieracium cæruleum. *Scop. fl. carn. n.* 976.
Icon. *Fl. dan.* 182.
In Canada. ♃. Aug. Sept. *v. s.* Flowers blue, and sometimes white.

5. S. pedunculis squamosis, floribus racemosis, foliis runcinatis acuminatis, caule paniculato-virgato. *Willd. sp. pl.* 3. *p.* 1520. *leucophæus.*
S. spicatus. *Lam. encycl.* 3. *p.* 401.
On the borders of woods, on road sides: New England to Virginia. ♂. July—Sept. *v. v.* Flowers small, white, tinged with blue.

6. S. pedunculis subsquamosis, floribus paniculatis, foliis lyrato-runcinatis denticulatis petiolatis.—*Willd. sp. pl.* 3. *p.* 1520. *floridanus.*

On road sides, in shady woods: Virginia and Carolina. ♂. July—Sept. *v. v.* Flowers very small, blue. This plant has been used for curing the bite of the rattlesnake, in the same manner as *Prenanthes Serpentaria*, and is known by the name of *Gall of the Earth.*

acuminatus. 7. S. pedunculis subsquamosis, floribus paniculatis, foliis radicalibus subruncinatis, caulinis ovatis acuminatis petiolatis medio denticulatis. —*Willd. sp. pl.* 3. *p.* 1521.

Lactuca villosa. *Jacq. hort. schœnb.* 3. *t.* 367 ?

In low shady places: Pensylvania to Virginia. ♂. Aug. Sept. *v. v.* Flowers small, blue.

pallidus. 8. S. racemo composito terminali, foliiis lanceolato-ensiformibus amplexicaulibus dentatis. *Willd. sp. pl.* 3. *p.* 1521.

Lactuca canadensis. *Sp. pl.* 1119.

Icon. *Rob. ic.* 148 & 151.

On road sides and in woods: Canada to New England. ♃. July—Sept. *v. v.* Flowers small, yellow.

pulchellus. 9. S. pedunculis squamosis, floribus corymboso-racemosis, foliis caulinis cordato-amplexicaulibus ovato-oblongis acutis integerrimis glabris.

On the banks of the Missouri. ♃. Sept. *v. s.* Flowers large, beautiful blue.

601. HIERACIUM. *Gen. pl.* 1238.

pusillum. 1. H. pusillum, villosissimum; caule simplici erecto unifloro remote subbifoliato, foliis lanceolatis attenuatis acutis integerrimis, caulinis linearibus, calyce villosissimo.—*Willd. sp. pl.* 3. 1561.

In Labrador. *Colmaster.* ♃. July. *v. s. in Herb. Dickson.* A very small plant; flowers, as in all the following species, yellow, the size of a common daisy. It strongly resembles *H. alpinum*, and is probably only a diminutive variety thereof.

venosum. 2. H. scapo nudo corymboso-paniculato glabro, pedicellis filiformibus, foliis obovato-lanceolatis supra rariter pilosis, subtus nudis margine ciliatis glanduloso-denticulatis, venis coloratis, calycibus glabris.—*Willd. sp. pl.* 3. *p.* 1570.

In shady fertile woods: Canada to Carolina. ♃. June —Aug. *v. v.* Flowers middle size, of a beautiful

yellow; the light green leaves are elegantly marked with blood-red veins. It is known by the name of *Poor Robin's Plantain*, and thought to possess considerable medicinal powers.

3. H. scapo folioso corymboso-paniculato, calycibus pedunculisque glanduloso-pilosis, foliis obovatis obtusis integerrimis, supra rariter strigoso-villosis, nervo medio subtus villosissimo.—*Willd. sp. pl.* 3. *p.* 1570. *Gronovii.*

α. H. caule subunifoliato, panicula subfastigiata. *Mich. fl. amer.* 2. *p.* 87. nudicaule.

β. H. caule parce folioso, panicula oblonga. *Mich. l. c.* foliosum.

H. marianum. *Willd sp. pl.* 3. *p.* 1572.

Icon. *Pluk. mant. t.* 3?0. *f.* 2.

In woods and on dry hills: Canada to Carolina. ♃. July, Aug. *v. v.* Flowers small.

4. H. pilosum; caule erecto simplici folioso, corymbo paucifloro, foliis oblongo-lanceolatis attenuatis inferne paucidentatis, radicalibus petiolatis.—*Willd. sp. pl.* 3. *p.* 1577? *molle.*

Icon. *Jacq. austr. t.* 119.

In Labrador. *Colmaster.* ♃. July—Sept. *v. s. in Herb. Dickson.* Flowers middle size.

5. H. glabriusculum; caule erecto folioso paniculato inferne albo-lanato, pedicellis capillaribus, foliis lanceolatis nudis dentatis membranaceis.—*Willd. sp. pl.* 3. *p.* 1572. *paniculatum.*

In shady woods: Canada to Carolina; principally on the mountains. ♃. July—Sept. *v. v.* Flowers very small.

6. H. caule erecto multifloro glabro, foliis subsessilibus lanceolatis acuminatis extrorsum argute dentatis, pedunculis in apice caulis alternis subunifloris tomentosis.—*Willd. sp. pl.* 3. *p.* 1588. *Kalmii.*

In Pensylvania. *Kalm.* +. Flowers small, upright, leaves small. It is singular, that in no part of North America could I find a plant answering to this description given by Linnæus.

7. H. caule erecto simplici villoso, foliis sessilibus lanceolatis acutis glabris subtus pilosis margine divaricato-argute-dentatis versus apicem integerrimis: dentibus divaricatis, panicula subcorymbosa, calycibus pedunculisque tomentosis.—*Lambert. herb. ms.* *virgatum.*

H. canadense. *Mich. fl. amer.* 2. *p.* 86?

In the western part of New York and Canada. ♃.

July—Sept. *v. v.; v. s. in Herb. Lambert.* Flowers middle size.

fasciculatum. 8. H. glabriusculum; caule erecto folioso simplici glabro; foliis sessilibus oblongis acutis argute-dentatis: dentibus elongatis, ramis paniculæ divaricatis brevibus, pedicellis subfasciculatis pubescentibus.

In Canada. *Masson.* ♃. *v. s. in Herb. Lambert.* A tall robust plant; flowers middle size.

scabrum. 9. H. hirsutissimum; caule erecto folioso hispido punctis fuscis scaberrimo, foliis oblongo-ovatis integris utrinque hirsutis, panicula simpliciuscula multiflora calycibusque glanduloso-hispidis, pedicellis brevibus divaricatis.—*Mich. fl. amer.* 2. *p.* 86.

In woods, in shady, rocky situations: Pensylvania. ♃. Aug. Sept. *v. v.* From three to five feet high; flowers small.

macrophyllum. 10. H. altissimum; caule erecto folioso hispido sulcato, foliis cordato-semiamplexicaulibus ovato-oblongis remote grosse-dentatis nudiusculis, nervis venisque subtus pubescentibus, panicula divaricato-corymbosa, pedunculis elongatis nudis calycibusque glabris.

In Canada. ♃. *v. s. in Herb. Lambert.* A very robust plant; leaves the largest of the genus; flowers large.

602. KRIGIA. *Gen. pl.* 1244.

virginica. 1. K. pusilla; foliis lyratis glaucis glabriusculis margine ciliatis, scapo 1-floro foliis duplo altiore, calyce sub-8-phyllo.—*Willd. sp. pl.* 3. *p.* 1618.

Hyoseris virginica. *Sp. pl.* 1138.

Icon. *Lam. journ. hist. nat.* 1. *t.* 12.

In pastures, grassy hills, fields, and road sides: Canada to Florida. ⊙. May—July. *v. v.* Flowers deep yellow, small.

603. HYOSERIS. *Gen. pl.* 1242.

montana. 1. H. glaberrima, procumbens; foliis lanceolatis integerrimis, scapo 1-floro.—*Mich. fl. amer.* 2. *p.* 87.

In the mountains of Carolina. *Michaux.* +.

angustifolia. 2. H. foliis lineari-lanceolatis sensim acutissimis glabellis, dentibus rarioribus exertis, scapo 1-floro. *Mich. fl. amer.* 3. *p.* 87.

Hyoseris major. *Walt. fl. car.* 194.

In fields and pastures: Virginia and Carolina. ☉. ♂. July, Aug. *v. v.* Flowers large, bright yellow.

3. H. foliis lyratis basi acutis superne dilatatis apice truncatis hirsutis, scapis 1-floris.—*Walt. fl. car.* 194. *caroliniana.*
In Carolina. *Walter.* +.

604. TROXIMON. *Gært. carp.* 2. *p.* 360. *Pers. syn.* 2. *p.* 360.

1. T. scapo unifloro, calycinis foliolis imbricatis cuspidatis, foliis linearibus integerrimis utrinque glaucis. *glaucum.*
On the banks of the Missouri. ♂. *v. s.*; *v. v. in Hortis.* Flowers bright yellow.

2. T. glabrum, glaucum; caule erecto 2–3-fido subnudo, foliis glabris, radicalibus sublyratis, caulinis amplexicaulibus lanceolatis integerrimis glabris.—*Pers. syn.* 2. *p.* 260. *virginicum.*
Hyoseris amplexicaulis. *Mich. fl. amer.* 2. *p.* 87.
Hyoseris prenanthoides. *Willd. sp. pl.* 3. *p.* 1615.
Hyoseris biflora. *Walt. fl. car.* 194.
Tragopogon virginicum. *Sp. pl. p.* 1111.
In meadows and moist shady woods: Pensylvania to Carolina. ♃. July, Aug. *v. v.* About a foot high; flowers handsome, yellow.

605. STOKESIA. *L'Herit. sert. angl.* 27.

1. S. foliis lanceolatis, caule folioso, pedunculis axillaribus 1-floris.—*Willd. sp. pl.* 3. *p.* 1703. *cyanea.*
Carthamus lævis. *Hill. kew. p.* 57. *t.* 5.
Icon. *L'Herit. l. c. t.* 38.
In South Carolina. ♃. *v. s. in Herb. Banks.* Flowers large, purple, very handsome.

606. ARCTIUM. *Gen. pl.* 1253.

1. A. foliis caulinis cordatis petiolatis denticulatis, floribus paniculatis globosis, calycibus lævibus.—*Willd. sp. pl.* 3. *p.* 1631. *Lappa.*
Icon. *Fl. dan.* 642. *Engl. bot.* 1228.
On road sides, among rubbish, and in cultivated grounds; frequent. ♂. July, Aug. *v. v.* Flowers purple. Common *Burdock.* Has probably been introduced.

607. CNICUS. *Gen. pl.* 1255.

lanceolatus. 1. C. foliis decurrentibus hispidis pinnatifidis, laciniis bilobis divaricatis spinosis, calycibus ovatis arachnoideo-pubescentibus, squamis lanceolatis spinosis patentibus. *Willd. sp. pl.* 3. *p.* 1666.
Carduus lanceolatus. *Sp. pl.* 1149.
On road sides; common every where. ♂. June—Sept. *v. v.* Flowers large, purple.

altissimus. 2. C. foliis sessilibus oblongo-lanceolatis scabris subtus tomentosis dentatis ciliatis, radicalibus pinnatifidis, calycibus bracteatis ovatis, squamis ovato-lanceolatis spinosis adpressis. *Willd. sp. pl.* 3. *p.* 1671.
Carduus altissimus. *Sp. pl.* 1154.
Carduus virginianus. *Walt. fl. car.* 195.
Cirsium repandum. *Mich. fl. amer.* 2. *p.* 89.
Cirsium altissimum. *Gron. fl. virg.* 117.
In old fields: Virginia and Carolina. ♃. July—Sept. *v. v.* Flowers large, purple.

arvensis. 3. C. foliis sessilibus pinnatifidis glabriusculis ciliatis spinosis, caule paniculato, calycibus ovatis mucronatis, squamis lato-lanceolatis adpressis margine lanatis.
Carduus arvensis. *Smith fl. brit.* 2. *p.* 850.
Serratula arvensis. *Willd. sp. pl.* 3. *p.* 1646.
Icon. *Fl. dan.* 644. *Engl. bot.* 975. *Mart. fl. rust.* 132.
In fields and on road sides: Canada and New England. ♃. July—Sept. *v. v.* Flowers small, purple. It is one of the most troublesome weeds, and when once introduced on a plantation it is almost impossible to get rid of it.

muticus. 4. C. foliis omnibus pinnatifidis subtus lanuginosis: laciniis spinulosis sublanceolatis acutis, ramis in summitate pluribus nudiusculis unifloris, calyce globoso, squamis muticis.
Cirsium muticum. *Mich. fl. amer.* 2. *p.* 89.
Carduus carolinianus. *Walt. fl. car.* 195.
In the mountains of Virginia and Carolina. ♂. July—Sept. *v. v.* Flowers middle-sized, purple.

virginianus. 5. C. simpliciusculus; foliis sessilibus lanceolatis subtus cano-tomentosis remote dentatis, dentibus spinosis, floribus solitariis, calyce globoso, squamis mucronatis.
Carduus virginianus. *Willd. sp. pl.* 3. *p.* 1659.
Cirsium virginianum. *Mich. fl. amer.* 2. *p.* 90.
Icon. *Jacq. obs. bot.* 4. *t.* 99.

In the mountains of Virginia and Carolina. ♃. July—Sept. *v. v.* Flowers purple.

6. C. elatius; foliis sessilibus pinnatifidis acute incisis spinosissimis, involucro terminali unifloro polyphyllo: foliolis geminatim spinosissimis, calycibus inermibus. *horridulus.*
Serratula discolor. *Lam. encycl.* 6. *p.* 565.
Cirsium horridulum. *Mich. fl. amer.* 2. *p.* 90.
Carduus spinosissimus. *Walt. fl. car.* 194.
On the banks of rivers and borders of woods: Pensylvania to Carolina. ♃. July—Sept. *v. v.* Very tall; flowers large, pale yellow.

608. CARDUUS. *Gen. pl.* 1254.

1. C. inermis; foliis decurrentibus lanceolatis pinnatifido-pectinatis, pedunculis terminalibus longissimis unifloris subaphyllis, floribus defloratis cernuis calycinis squamis linearibus patulis.—*Willd. sp. pl.* 3. *p.* 1655. *pectinatus.*
In Pensylvania. ♂. +. Flowers purple, the size of *Arctium Lappa.* It probably is a species of *Cnicus.*

609. LIATRIS. *Gen. pl.* 1263.

* *Spicatæ seu racemosæ; bulbosæ.*

1. L. caule simplici, elato; foliis linearibus glabris basi ciliatis nervosis et punctatis, spica longissima, floribus sessilibus, squamis calycinis lineari-oblongis obtusis appressis.—*Mich. fl. amer.* 2. *p.* 91. *macrostachya.*
L. spicata. *Willd. sp. pl.* 3. *p.* 1636.
Anonymos graminifolius. *Walt. fl. car.* 197.
Serratula spicata. *Sp. pl.* 1147.
Icon. *Bot. rep.* 401. *Pluk. alm. t.* 424. *f.* 6.
In natural meadows: Pensylvania to Carolina. ♃. Aug.—Oct. *v. v.* From three to six feet high; flowers, as all the following species, purple, in very long and close spikes.

2. L. caule simplici hirsuto, foliis strictis angusto-linearibus pubescentibus, spica longa, floribus confertim sessilibus, calycibus appressis superne squarrosis.—*Mich. fl. amer.* 2. *p.* 91. *pycnostachya.*
Anonymos pilosa. *Walt. fl. car.* 197.
Icon. *Dill. elth. t.* 72. *f.* 83.
In mountain meadows: Virginia, Illinois, and Carolina. ♃. Aug.—Oct. *v. v.* From two to four feet high; flowers smaller than No. 1.

graminifolia. 3. L. caule simplici glabro, foliis linearibus longissimis glabris nervosis margine scabriusculis costa media interne subpilosis, floribus spicatis remotiusculis subsessilibus, calycinis squamis oblongis obtusis mucronatis ciliatis appressis, interioribus coloratis.—*Willd. sp. pl.* 3. *p.* 1636. *exclus. syn. Walteri.*

Serratula compta. *Herb. Banks. mss.*

In South Carolina and Georgia. *Bartram.* ♃. Aug.—Oct. *v. v.* About two or three feet high; flowers the size of No. 2; leaves very long and narrow.

heterophylla. 4. L. caule simplici glabro, foliis lanceolatis glabris lævibus: superioribus lineari-lanceolatis multoties minoribus, calycibus spicatis brevissime pedunculatis subsquarrosis: squamis lanceolatis acutis nudis.—*Willd. enum.* 503.

L. varia. *Herb. Banks. mss.*

In South Carolina and Georgia. *Fraser. Bartram.* ♃. Aug.—Oct. *v. s. in Herb. Banks. nec non Lambert.* Flowers the size of the preceding.

aspera. 5. L. caule subramoso scabro-pubescente, foliis lineari-lanceolatis asperrimis, calycibus brevibus spicatis distincte alternis solitariis sessilibus: squamis rotundato-obtusis conniventibus.—*Mich. fl. amer.* 2. *p.* 92.

Anonymos ramosus. *Walt. fl. car.* 198.

In South Carolina and Illinois. *Walter. Michaux.* ♃. Aug.—Oct. *v. s.* Flowers larger than any of the foregoing species.

cylindracea. 6. L. gracilis, tota hirsuta; foliis gramineis, spica rariflora, calycibus subsessilibus cylindraceis paucifloris, squamis apice rotundatis abrupte mucronatis. *Mich. fl. amer.* 2. *p.* 93.

In woods and meadows of South Carolina and Illinois. ♃. Aug. Sept. *v. s. in Herb. Fraser.*

pilosa. 7. L. caule simplici pubescente, foliis linearibus pilosis ciliatis, calycibus racemosis laxiusculis: squamis lineari-oblongis obtusiusculis, pedicellis bracteolatis.—*Willd. sp. pl.* 3. *p.* 1636.

Anonymos ciliatus. *Walt. fl. car.* 197.

In pine-barrens and sandy fields: New Jersey to Carolina. ♃. Sept.—Nov. *v. v.* A low species; flowers the size of No. 2.

gracilis. 8. L. caule simplici glabro, foliis linearibus nudis, calycibus racemosis subglobosis: squamis oblongis obtusiusculis appressis, pedicellis elongatis patentibus squamoso-bracteolatis.

In Georgia. *Bartram.* Aug.—Oct. *v. s. in Herb. Banks.* Flowers smaller than any preceding species.

9. L. caule simplici villoso, foliis linearibus subfalcatis scabro-punctatis, spica subfoliosa, pedicellis brevibus, calycinis squamis intimis ligulatis coloratis.—*Willd. sp. pl.* 3. *p.* 1635. *elegans.*

Serratula speciosa. *Ait. kew.* 3. *p.* 138.

Stæhelina elegans. *Walt. fl. car.* 202.

Eupatorium speciosum. *Vent. hort. cels.* 79.

In sandy fields: Carolina to Florida. ♃. Sept.—Nov. *v. v.* A beautiful perennial; flowers in long close spikes, purplish-red.

10. L. caule simplici pubescente, foliis lævibus: inferioribus petiolatis lato-lanceolatis, superioribus lanceolato-linearibus, calycibus racemosis solitariis alternis subglobosis: squamis ovatis acutiusculis erectis, margine ciliatis.—*Mich. fl. amer.* 2. *p.* 92. *sphæroidea.*

On high mountains of Virginia and Carolina. ♃. Aug.—Oct. *v. v.* Flowers large and handsome.

11. L. caule simplici subpubescente, foliis lanceolatis utrinque attenuatis glabris margine scabris, calycibus racemosis alternis distantibus inferne squarrosis; squamis spathulatis margine membranaceo coloratis.—*Willd. sp. pl.* 3. *p.* 1635. *scariosa.*

L. squarrulosa. *Mich. fl. amer.* 2. *p.* 92.

Serratula scariosa. *Sp. pl.* 1147.

Icon. *Pluk alm. t.* 177. *f.* 4.

In mountain meadows: Virginia to Carolina. ♃. Aug.—Oct. *v. v.* Flowers the size of No. 10.

12. L. caule simplici pubescente, foliis longissime linearibus nervosis margine scabriusculis, racemis paucifloris foliosis, calycinis squamis superne foliaceis lanceolatis rigidis patentibus.—*Willd. sp. pl.* 3. *p.* 1634. *squarrosa.*

Serratula squarrosa. *Hort. cliff.* 392.

Pteronia caroliniana. *Walt. fl. car.* 202.

Icon. *Dill. elth. t.* 71. *f.* 82.

In sandy woods and fields: Virginia, Kentucky, and Carolina. ♃. Sept. Oct. *v. v.* Flowers large, very handsome. This and the preceding are known among the inhabitants of those countries by the name of *Rattlesnake's Master.* In case of being bit by this horrible animal, they bruise the bulbs of this plant and apply it to the wound, while, at the same time, they make

a decoction of it in milk, which is taken inwardly, in the same manner as I have mentioned under *Prenanthes serpentaria.*

** *Paniculatæ seu corymbosæ; non bulbosæ.*

pauciflora. 13. L. caule simplici glabro; foliis linearibus, panicula virgata foliosa, ramis brevibus paucifloris, calycibus subsessilibus secundis 3—5-floris: squamis erectis lanceolatis acutis glabris.

In Georgia. *Bartram.* ♃. *v. s. in Herb. Banks.* Flowers small, the size of No. 4.

paniculata. 14. L. caule simplici panicula calycibusque piloso-viscosis, foliis inferioribus lanceolatis attenuatis nervosis glabris: caulinis minoribus sessilibus, panicula coarctata fasciculata, calycibus sub-5-floris: squamis lanceolatis acutiusculis.—*Willd. sp. pl.* 3. *p.* 1637.

Anonymos paniculatus. *Walt. fl. car.* 198.

In pine-barrens: Virginia to Florida. ♃. Aug.—Oct. *v. s. in Herb. Enslen.* Flowers the smallest of all the species here enumerated.

odoratissima. 15. L. glaberrima; caule simplici; foliis radicalibus oblongis, caulinis amplexicaulibus, panicula corymbosa laxo-divaricata, calycibus sub-8 floris: squamis lanceolatis obtusiusculis.—*Willd sp pl.* 3. *p.* 1637.

Anonymos odoratissimus. *Walt. fl car.* 198.

Icon. *Bot. rep.* 633.

In open swamps: Carolina to Florida. ♃. Sept. Oct. *v. v.* Flowers a little larger than the preceding. It is generally called *Carolina Vanilla-plant.* The leaves, when dry, give a very agreeable scent, resembling somewhat that of Vanilla, which they maintain for years if kept dry and inclosed.

tomentosa. 16. L. caule simplicissimo foliisque cuneato-lanceolatis hirsutis, corymbo paucifloro depresso divaricato, ramis 1–2-floris, calycibus tomentosis: squamis ovatis acutis.—*Mich. fl. amer.* 2. *p.* 93.

In open swamps: Virginia and North Carolina. ♃. Aug.—Oct. *v. v.* About eighteen inches high; flowers the size of No. 1.

bellidifolia. 17. L. pumila, glabella; foliis cuneato-oblanceolatis, corymbo inæquali, floribus omnibus longiuscule pedicellatis, calycinis squamis oblongo-obovalibus obtusis. *Mich. fl. amer.* 2. *p.* 93.

Anonymos uniflorus. *Walt. fl. car.* 198.
In dry gravelly fields of North Carolina. *Michaux.* ♃. +.

610. VERNONIA. *Gen. pl.* 1262.

1. V. caule simplici nudiusculo, foliis serratis: radicalibus oblongo-ovatis, caulinis lanceolatis, corymbo paniculato.— *Mich. fl. amer.* 2. *p.* 94. *oligophylla.*
Chrysocoma acaulis. *Walt. fl. car.* 196.
α. V. utroque flore pedunculato. verna.
β. V. altero flore subsessili. autumnalis.
In South Carolina. ♃. *v. s. in Herb. Walter.* Flowers, as all the following, purple.

2. V. caule simplici, foliis crebris longe angusteque linearibus subintegris, corymbo subumbellato, calycinis squamis rigide mucronatis. *Mich. fl. amer.* 2. *p.* 94. *angustifolia.*
Chrysocoma angustifolia. *Walt. fl. car.* 196.
In barren sandy woods: Virginia to Georgia. ♃. Aug. Sept. *v. s. in Herb. Enslen.* Flowers the size and figure of *V. præalta.*

3. V. foliis longo-linearibus rariter serratis, floribus corymbosis erecto approximatis, calycibus ovoideis lævibus, squamis muticis. *Mich. fl. amer.* 2. *p.* 85. *fasciculata.*
In natural meadows: Illinois. *Michaux.* Virginia. *Ph.* ♃. Aug.—Oct. *v. v.* Flowers small.

4. V. caule altissimo anguloso dense pubescente, foliis crebris lanceolatis acute serratis subtus pubescentibus, corymbo fastigiato, calycinis squamis ovatis acutis muticis.—*Willd. sp. pl.* 3. *p.* 1633. *præalta.*
Serratula præalta. *Sp. pl.* 1146.
Chrysocoma tomentosa. *Walt. fl. car.* 196.
Icon. *Dill. elth. t.* 264. *f.* 343. *Mill. ic.* 234. *Pluk. alm. t.* 280. *f.* 6.
On road sides and borders of woods: New England to Carolina. ♃. Aug.—Oct. *v. v.* A tall rough-looking plant.

5. V. altissima; foliis crebris lanceolatis serrulatis scabris, corymbo fastigiato, calycinis squamis apice filiformibus.—*Willd. sp. pl.* 3. *p.* 1632. *noveboracensis.*
Serratula noveboracensis. *Hort. cliff.* 392.
Chrysocoma gigantea. *Walt. fl. car.* 196.
Icon. *Dill. elth. t.* 263. *f.* 342. *Pluk. alm. t.* 109. *f.* 3.
On road sides and old pastures: Canada to Carolina. ♃. Aug.—Oct. *v. v.* About five feet high.

611. KUHNIA. *Gen. pl.* 1272.

Critonia. *Gært. carp.* 2. *p.* 411.
Dalea. *Brown. jam.* 314.

eupatorioides. 1. K. glabra; foliis petiolatis lato-lanceolatis serratis, corymbo terminali paucifloro coarctato.—*Willd. sp. pl.* 3. *p.* 1772.

Eupatorium alternifolium. *Ard. spec.* 2. *p.* 40. *t.* 20.

Icon. *Linn. fil. dec. t.* 11. *Pluk. alm. t.* 87. *f.* 2.

In shady woods, about rocks: Pensylvania to Virginia. ♃. Aug. Sept. *v. v.* Flowers white; resembles an *Eupatorium* exceedingly.

Critonia. 2. K. pubescens; foliis angusto-lanceolatis inferne subdentatis petiolatis subtus punctatis: superioribus linearibus integerrimis sessilibus, panicula terminali divaricata.—*Willd. sp. pl.* 3. *p.* 1773.

Critonia Kuhnia. *Mich. fl. amer.* 2. *p.* 101.

Icon. *Gært. carp.* 2. *t.* 174. *f.* 7.

On high mountains of Pensylvania and Virginia. ♃. Aug. Sept. *v. v.* Flowers pale yellow.

612. EUPATORIUM. *Gen. pl.* 1272.

* *Calycibus* 3—5-*floris.*

fœniculaceum. 1. E. caule paniculato, foliis glabris inferioribus pinnatis, superioribus fasciculatis, omnibus filiformibus.—*Willd. sp. pl.* 3. *p.* 1750.

E. fœniculoides. *Walt. fl. car.* 199.

Chrysocoma capillacea. *Mich. fl. amer.* 2. *p.* 101.

In fields and on road sides, near the sea coast: Virginia to Florida. ♃. Aug.—Oct. *v. v.* From two to five feet high, resembling an *Artemisia* very much, flowers in great abundance, small, pale yellow.

coronopifolium. 2. E. caule paniculato, foliis infimis pinnatifidis, reliquis indivisis fasciculatis linearibus integerrimis. *Willd. sp. pl.* 3. *p.* 1750.

E. compositifolium. *Walt. fl. car.* 199.

Chrysocoma coronopifolia. *Mich. fl. amer.* 2. *p.* 102.

In dry woods, on road sides: Carolina. ♃. Aug. Sept. *v. v.* Flowers white, double the size of the preceding.

hyssopifolium. 3. E. foliis oppositis subverticillatis linearibus integerrimis pubescentibus trinervibus punctatis, radicalibus subdentatis. *Willd. sp. pl.* 3. *p.* 1749.

Icon. *Dill. elth t.* 115. *f.* 140. *Pluk. alm. t.* 88. *f.* 2.
In dry pine-barrens and sandy fields: New Jersey to Calina. ♃. Aug.—Oct. *v. v.* About a foot high; leaves small: flowers white, as all the following are, unless a different colour is mentioned.

4. E. foliis lineari-lanceolatis denticulatis obsolete 3-nervibus pubescentibus, inferioribus oppositis verticillatis, superioribus alternis. *Willd. sp. pl.* 3. *p.* 1750. *Walt. fl. car.* 199. *linearifolium.*
In low sandy fields: New Jersey to Carolina. ♃. Aug.—Nov. *v. v.* The calyx is covered with resinous dots.

5. E. foliis sessilibus amplexicaulibus distinctis ovato-lanceolatis basi rotundatis serratis glaberrimis, caule glabriusculo. *Willd. sp. pl.* 3. *p.* 1751. *sessilifolium.*
About rocks, particularly lime-stone, and throughout the Allegany mountains. ♃. Aug. Sept. *v. v.* About two feet high; very smooth.

6. E. foliis sessilibus amplexicaulibus distinctis lanceolatis basi truncatis serratis glabriusculis, caule pubescente. *Willd. sp. pl.* 3. *p.* 1751. *truncatum.*
In shady woods, about rocks: Pensylvania to Virginia. ♃. July—Oct. *v. v.* Resembles the preceding species.

7. E. foliis subsessilibus oblongo-lanceolatis scabriusculis serratis, calycinis squamis interioribus elongatis lanceolatis scariosis coloratis. *Willd. sp. pl.* 3. *p.* 1752. *album.*
In woods and swamps: Pensylvania and Virginia. ♃. Aug.—Oct. *v. v.* About eighteen inches high.

8. E. foliis sessilibus distinctis oblongo-lanceolatis scabris basi profunde serratis, calycinis squamis concoloribus. —*Willd. sp. pl.* 3. *p.* 1752. *lanceolatum.*
In low copses and dry swamps: Pensylvania to Virginia. ♃. Aug.—Nov. *v. v.* Resembles the preceding species.

9. E. foliis sessilibus distinctis ovatis scabris, superioribus basi grosse serratis, summis integerrimis. *Willd. sp. pl.* 3. *p.* 1753. *teucrifolium.*
E. pilosum. *Walt. fl. car.* 199.
E. verbenæfolium. *Mich. fl. amer.* 2. *p.* 98.
Icon. *Willd. hort. berol.* 32.
In swamps and low woods: New England to Carolina. ♃. Aug.—Nov. *v. v.* About two feet high.

cuneifolium. 10. E. foliis petiolatis obovato-lanceolatis apice subserratis triplinervibus utrinque pubescentibus. *Willd. sp. pl.* 3. *p.* 1753.

E. Marrubium. *Walt. fl. car.* 199.

In low sandy fields: Virginia and Carolina. ♃. Aug.—Oct. *v. v.* Not above a foot high.

melissoides. 11. E. foliis petiolatis ovatis obtusiusculis obtuse serratis venosis glabriusculis. *Willd. sp. pl.* 3. *p.* 1754.

In Pensylvania. ♃. Aug.—Oct. +. Resembles No. 9; but the leaves are smaller, petiolated, and smooth.

rotundifolium. 12. E. foliis sessilibus distinctis subrotundo-cordatis obtuse serratis venosis, calycinis squamis acuminatis.—*Willd. sp. pl.* 3. *p.* 1754.

Icon. *Pluk. alm. t.* 88. *f.* 4.

In swamps and shady woods: Canada to Carolina. ♃. Aug.—Nov. *v. v.* About a foot or eighteen inches high.

pubescens. 13. E. foliis sessilibus distinctis ovatis scabris venosis, inferioribus duplicato-serratis, superioribus subserratis, caule paniculato pubescente, ramis fastigiatis. *Willd. sp. pl.* 3. *p.* 1755.

E. glandulosum. *Mich. fl. amer.* 2. *p.* 98?

In dry sandy woods: New Jersey to Carolina. ♃. Aug.—Oct. *v. v.* Not above two feet high.

ceanothifolium. 14. E. foliis petiolatis ovatis acuminatis dentatis triplinervibus glabris. *Willd. sp. pl.* 3. *p.* 1755.

In shady woods, about rocks: New York to Virginia. ♃. Aug.—Nov. *v. v.* Resembles *Ceanothus americanus* in its foliage exceedingly.

altissimum. 15. E. foliis subsessilibus lanceolatis 3-nervibus utrinque attenuatis pubescentibus, inferioribus medio serratis. *Willd. sp. pl.* 3. *p.* 1754.

Icon. *Jacq. hort. vind.* 164.

In low sandy woods: Pensylvania and Virginia, and on the banks of the Mississippi and Missouri. ♃. Aug.—Oct. *v. v.* From three to seven feet high.

amœnum. 16. E. foliis brevi-petiolatis oppositis ternatisque lanceolato-oblongis utrinque acutis serratis glabriusculis subrugosis subtus reticulato-venosis, panicula corymboso-fasciculata confertiflora, calycinis squamis oblongis acutiusculis coloratis.

On the New Jersey mountains. ♃. Sept. Oct. *v. v.*

About two feet high; stem solid, smooth, purple; peduncles tomentose; flowers small, but very closely collected in a corymbose panicle, of a beautiful pale purple inclining to flesh colour.

17. E. foliis petiolatis ternis quaternisve ovatis utrinque attenuatis serratis scabriusculis. *Willd. sp. pl.* 3. *p.* 1756. *trifoliatum.*
In swamps and on the banks of rivers: New York to Virginia. ♃. Aug.—Oct. *v. v.* A tall plant without branches.

18. E. glabellum; foliis quaternis ovali-lanceolatis utrinque acuminatis subfalcatis rariter serratis, squamis calycinis extimis brevibus ovalibus.—*Mich. fl. amer.* 2. *p.* 99. *falcatum.*
On the banks of the Ohio and Scioto rivers. *Michaux.* ♃. +. A tall plant, resembling *E. album.*

** *Calycibus plus quam 5-floris.*

19. E. foliis petiolatis quaternis quinisve ovato-lanceolatis serratis rugoso-venosis scabriusculis, caule fistuloso. *Willd. sp. pl.* 3. *p.* 1759. *purpureum.*
Icon. *Rob. ic.* 217. *Corn. canad. t.* 72. *Moris. hist.* 3. *s.* 7. *t.* 13. *f.* 4. *Dod. mem. t.* 217.
In swamps, wet woods, and on the banks of rivulets: Canada to Virginia. ♃. Aug.—Oct. *v. v.* Very tall; flowers purple.

20. E. foliis petiolatis quaternis quinisve ovato-lanceolatis inæqualiter serratis subtus pubescentibus, caule solido sulcato. *Willd. sp. pl.* 3. *p.* 1760. *maculatum.*
Icon. *Herm. parad. t.* 158. *Moris. hist.* 3. *s.* 7. *t.* 18. *f.* 3.
In swamps and near ponds and rivulets: Canada to Carolina. ♃. Aug.—Oct. *v. v.* Stem marked with purple lines, not so tall as the preceding species; flowers purple.

21. E. foliis petiolatis quaternis quinisve ovatis acuminatis serratis utrinque scabris, caule solido tereti. *Willd. enum.* 853. *punctatum.*
E. maculatum. *Hortul.*
In the Blue-mountains: New Jersey and Pensylvania. ♃. Aug.—Oct. *v. v.* Not so tall as the preceding; flowers purple, very ornamental.

22. E. foliis petiolatis ternis quaternisve ovato-lanceolatis, basi cuneatis inæqualiter serratis glabriusculis, caule solido lævi. *Willd. sp. pl.* 3. *p.* 1760. *verticillatum.*

On the banks of rivers and in swamps; frequent: New York to Carolina. *v. v.* From four to six feet high; flowers purple. It differs from No. 18 in its stem, broader and smoother leaves, and white calyces; from No. 19 in its stem and smooth leaves.

perfoliatum. 23. E. foliis connato-perfoliatis oblongis sursum angustatis serratis rugosis subtus tomentosis, caule villoso.—*Willd. sp. pl.* 3. *p.* 1761.

E. connatum. *Mich. fl. amer.* 2. *p.* 99.

Icon. *Pluk. alm. t.* 87. *f.* 6.

In low meadows and about springs: Canada to Florida. ♃. Aug.—Oct *v. v.* From two to three feet high; flowers white. The whole plant is exceedingly bitter, and has been used for ages past by the natives and inhabitants in intermitting fevers. It is generally known by the name of *Thorough-wort* or *Bone-set*. I have stated a case of its efficacy in those diseases in a letter to William Royston, Esq who inserted it in the Medical and Physical Journal. In which I stated the benefits derived from this plant, by myself and others during my stay in the neighbourhood of lake Ontario, when both the influenza and lake fever (similar to the yellow fever) were raging among the inhabitants. It is generally used as a decoction, or, which I consider the more effectual way, as an infusion in gin or rum.

cœlestinum. 24. E. foliis petiolatis cordato-ovatis obtusiusculis triplinervibus obtuse serratis, floribus corymbosis. *Willd. sp. pl.* 3. *p.* 1764.

Icon. *Dill. elth. t.* 114. *f.* 159.

In mountain-woods of Virginia to Carolina. ♃. Aug. —Oct. *v. v.* Flowers large, beautiful blue.

aromaticum. 25. E. foliis petiolatis ovatis acutis trinervibus obtuse-serratis glabris, caule superne paniculato, floribus corymbosis, calycibus simplicibus. *Willd. sp. pl.* 3. *p.* 1765.

Icon. *Pluk. alm. t.* 88. *f.* 3.

In woods and on the banks of rivers: Pensylvania to Florida. ♃. Aug.—Oct. *v. v.* Flowers large, clear white, sweet-scented.

ageratoides. 26. E. foliis petiolatis ovatis acuminatis trinervibus inæqualiter grosse serratis glabris, corymbo multifloro divaricato, calycibus subsimplicibus. *Willd sp. pl.* 3. *p.* 1765.

E. urticæfolium *Mich. fl. amer.* 2. *p.* 100.

Ageratum altissimum. *Sp. pl. ed.* 2. *p.* 1176.

Icon. *Moris. hist.* 3. *s.* 7. *t.* 18. *f.* 11.

The most common species in the Allegany mountains, and near the sea-coast from Canada to Pensylvania. ♃. Aug.—Oct. *v. v.* About two feet high; flowers white.

27. E. foliis longe-petiolatis subdeltoideo-lanceolatis rariter serratis, calycinis squamis tomentosis obtusis, caule pulverulento.—*Mich. fl. amer.* 2. *p.* 100. *serotinum.*

On the sea-coast of Carolina, among Scirpus, &c. *Michaux.* ♃. Sept.—Nov. +. Flowers white.

613. MIKANIA. *Willd. sp. pl.* 3. *p.* 1742.

1. M. caule scandente glabro, foliis cordatis repando-dentatis acuminatis lobis divaricatis inæqualibus, floribus corymbosis. *Willd. sp. pl.* 3. *p.* 1743. *scandens.*

Eupatorium scandens. *Sp. pl.* 1171.

Icon. *Jacq. ic. rar.* 1. *t.* 169. *Pluk. alm. t.* 163. *f.* 3.

On the banks of rivers and ditches: Canada to Carolina. ♃. July—Sept. *v. v.* A twining plant; flowers very numerous, white with a tinge of blue. There is another species, found in Carolina, with flesh-coloured fragrant flowers, but I have no materials at hand to give its description.

614. CHRYSOCOMA. *Gen. pl.* 1019.

1. C. foliis radicalibus spathulato-lanceolatis, caulinis linearibus rariter sparsis, caule subnudo, corymbo composito fastigiato, calycibus oblongis 3—4-floris. *Mich. fl. amer.* 2. *p.* 101. *nudata.*

In low grounds, in the forests of North and South Carolina. ♃. Aug.—Oct. *v. v.* A plant of singular appearance, the stem almost leafless; the large flat corymbus consists of small flowers, entirely yellow; even the calyx is deeply coloured.

2. C. glabra; foliis linearibus 3-nervibus punctato-scabris, floribus corymbosis congestis, calycibus laxis 5-floris glabris.—*Lam. encycl.* 2. *p.* 192. *dracunculoides.*

C. biflora. *Sp. pl.* 1178. secundum specimen Pallasianum in Herbario Lambertiano asservatum.

On high cliffs on the banks of the Missouri. *M. Lewis.* ♃. Oct. *v. s. in Herb. Lewis.* From one to two feet high; flowers large, yellow.

3. C. calycibus pedunculis foliisque sublanato-pubescenti- *nauseosa.*

bus; foliis angustissime linearibus, corymbo laxiusculo, calycibus laxis 5-floris: squamis interioribus divaricatis glabris.—*Pallas. mss. in Herb. Lambert.*

On the banks of the Missouri. *M. Lewis.* ♃. Oct. *v. s. in Herb. Lewis.* Flowers yellow, somewhat smaller than the preceding.

615. CACALIA. *Gen. pl.* 1275.

suaveolens. 1. C. caule herbaceo, foliis petiolatis hastato-sagittatis serratis glabris concoloribus, floribus corymbosis erectis, calycibus multifloris.—*Willd. sp. pl.* 3. *p.* 1734.

On the banks of rivers: Pensylvania to Carolina. ♃. Aug.—Oct. *v. v.* From three to four feet high; flowers white; anthers yellow.

atriplicifolia. 2. C. caule herbaceo, foliis petiolatis glabris subtus glaucis, radicalibus cordatis dentatis, caulinis rhombeis utrinque subbidentatis, floribus corymbosis erectis, calycibus 5 floris.—*Willd. sp. pl.* 3. *p.* 1734.

Icon. *Pluk. alm. t.* 101. *f.* 1. *Moris. hist.* 3. *s.* 7. *t.* 15. *f.* 7.

In low and overflowed places, near rivers: Canada to Carolina. ♃. Aug.—Oct. *v. v.* Flowers white, considerably smaller than the preceding.

reniformis. 3. C. caule herbaceo, foliis petiolatis glabris subtus ad venas pilosis, radicalibus amplis cordatis reniformibus repando-dentatis, caulinis oblongis dentatis basi cuneatis integerrimis, corymbis fastigiatis, calycibus multifloris. *Willd. sp. pl.* 3. *p.* 1735.

On the banks of rivers: Pensylvania to Virginia. ♃. Aug.—Oct. *v. v.* From five to ten feet high; flowers white.

616. SPARGANOPHORUS. *Gært. carp.* 2. *p.* 395.

verticillatus. 1. S. foliis setaceo-linearibus verticillatis, caule subunifloro, pappo campanulato 5-dentato.—*Mich. fl. amer.* 2. *p.* 95.

Ethulia uniflora. *Walt. fl. car.* 195. *Willd. sp. pl.* 3. *p.* 1742.

Icon. *Mich. fl. amer.* 2. *t.* 42.

In overflowed swamps and rivulets: New Jersey, Carolina, and Florida. ♃. Aug.—Oct. *v. v.* Floating in the water; flowers purple, the size of a large daisy.

617. HYMENOPAPPUS. *L'Herit. monog. Mich. fl. amer.* 2. *p.* 103.

Rothia. *Lam. illustr. t.* 667.

1. H. candicanti-lanuginosus; foliis profunde pinnatifidis, laciniis lineari-oblongis subdentatis, floribus corymboso-paniculatis.—*Mich. fl. amer.* 2. *p.* 104. *scabiosæus.*
Rothia caroliniensis. *Journ. de hist. nat. no.* 1. *cum icone.*
In Carolina. ⊙. +. Flowers white, the size of *Liatris scariosa.*

618. MELANANTHERA. *Mich. fl. amer.* 2. *p.* 106.

1. M. foliis triplinerviis ovatis acuminatis scabris inæqualiter dentatis, inferioribus subcordatis, superioribus hastato-trilobis, pedunculis terminalibus corymbosis, paleis receptacuii lanceolatis acuminatis.—*Mich. fl. amer.* 2. *p.* 107. *hastata.*
Bidens nivea. *Willd. sp. pl.* 3. *p.* 1721.
Athanasia hastata. *Walt. fl. car.* 201.
α. M. foliis profunde trilobatis. lobata.
Icon. *Dill. elth. t.* 47. *f.* 55.
β. M. foliis leviter lobatis panduræformibus. pandurata.
Icon. *Dill. elth. t.* 46. *f.* 54.
On the banks of rivers: Carolina to Florida. ♃. Aug.—Oct. *v. v.* Flowers large, white.

619. MARSHALLIA. *Gen. pl.* ....

Trattenickia. *Pers. syn.* 2. *p.* 403.
Persoonia. *Mich. fl. amer.* 2. *p.* 104.

1. M. caule simplici inferne folioso superne nudato, foliis longo-lanceolatis, calycinis foliolis obtusis, paleis spathulatis. *lanceolata.*
Persoonia lanceolata. *Mich. fl. amer.* 2. *p.* 105.
Athanasia obovata. *Walt. fl. car.* 201.
In the Carolina mountains. ♃. *v. s. in Herb. Walter.* Flowers resembling a *Scabious*, pale purple, and like all the following very ornamental.

2. M. caule simplici, foliis lanceolato-ovalibus acuminatis trinervibus, infimis vaginantibus, calycinis foliolis acutis, paleis angusto-linearibus. *latifolia.*
Persoonia latifolia. *Mich. fl. amer.* 2. *p.* 105. *t.* 43.

Athanasia trinervia. *Walt. fl. car.* 201.
In the Carolina mountains. ♃. *v. s. in Herb. Walter.*

angustifolia. 3. M. caule ramoso, foliis infimis angusto-lanceolatis, rameis angustissime linearibus, calycinis foliolis rigidis superne angustatis acutissimis, paleis setaceis.
Persoonia angustifolia. *Mich. fl. amer.* 2. *p.* 106.
Athanasia graminifolia. *Walt. fl. car.* 200.
In Tennassee. *Michaux.* In swamps, near Wilmington, North Carolina. *Ph.* ♃. June, July. *v. v.* The handsomest species of this genus.

620. SANTOLINA. *Gen. pl.* 1278.

suaveolens. 1. S. glabra; caule corymboso-ramoso, foliis subbipinnatifidis, laciniis acutis linearibus, pedunculis terminalibus unifloris.
On the banks of the Kooskoosky. *M. Lewis.* ☉. June—Aug. *v. v.*; *v. s. in Herb. Lewis.* A small plant of an agreeable sweet scent; flowers yellow.
Planta glabra. *Caulis* erectus, ramosus: rami corymbosi uniflori. *Folia* sessilia tenuissime pinnatifida, laciniis inciso- 2–3-fidis, omnibus acutis angusto-linearibus. *Pedunculi* terminales, solitarii, uniflori. *Calyx* hemisphæricus, subimbricato-polyphyllus: foliolis ovalibus, obtusis, glabris, viridibus, margine albido-membranaceis, laceris. *Cor.* discoidea. *Discus* globosus, luteus. *Corollulæ* germine oblique insertæ, tubulosæ, 4-fidæ? laciniis erectis. *Genitalia* inclusa. *Receptaculum* conicum, paleaceum. *Paleis* sparsis, oblongis, obtusis. *Pappus* nullus. *Semina* oblique obovata.

II. *SUPERFLUA.*

621. ARTEMISIA. *Gen. pl.* 1281.

* *Foliis simplicibus.*

integrifolia. 1. A. cano-tomentosa; caule erecto virgato; foliis lineari-lanceolatis acuminatis subtus tomentosis subdentatis, floribus ovatis subsessilibus erectis tomentosis.—*Willd. sp. pl.* 3. *p.* 1846.

Icon. *Gmel. fl. sib.* 2. *t.* 48. *f.* 1 & 2.
On the cliffs and dry savannahs of the Missouri. *M. Lewis.* ♃. Oct. *v. s. in Herb. Lewis.* About three feet high.

2. A. glabra; foliis lineari-lanceolatis utrinque attenuatis, floribus subrotundis pedunculatis erectis.—*Willd. sp. pl.* 3. *p.* 1848. *Dracunculus.*
Icon. *Gmel. fl. sib.* 2. *t.* 59 & 60. *f.* 1.
On the Missouri. *M. Lewis.* ♃. Aug.—Oct. *v. s. in Herb. Lewis.*

3. A. canescens; foliis longe lineari-lanceolatis acutis nervosis utrinque canis: inferioribus cuneiformibus acute-3-lobis, floribus ovalibus glomeratis sessilibus axillaribus. *cana.*
On the Missouri. *M. Lewis.* ♃. Sept.—Nov. *v. s. in Herb. Lewis.*

4. A. canescens; foliis inferioribus cuneiformibus obtusis trilobis, superioribus linearibus obtusis, floribus globosis pedunculatis cernuis. *Willd. sp. pl.* 3. *p.* 1848. *chinensis.*
Icon. *Gmel. fl. sib.* 2. *t.* 61. *f.* 1 & 2. *Pluk. amalth. t.* 353. *f.* 5.
On the north-west coast. ♃. Sept. Oct. *v. s. in Herb. Lambert.* Flowers large.

** *Foliis compositis; caule paniculato.*

5. A. foliis caulinis pinnatis linearibus glabris, ramis indivisis, spicis secundis reflexis, floribus subsessilibus 5-floris. *Willd. sp. pl.* 3. *p.* 1826. *Santonica.*
Icon. *Gmel. fl. sib.* 2. *t.* 51. *Lob. ic.* 756.
On the plains of the Missouri. *M. Lewis.* ♃. Sept. Oct. *v. s. in Herb. Lewis.*

6. A. foliis caulinis setaceis pinnatis glabris, radicalibus pinnatis, laciniis 3-fidis incanis, caule procumbente ramoso virgato, floribus ovatis pedunculatis. *Willd. sp. pl.* 3. *p.* 1827. *campestris.*
Icon. *Engl. bot.* 338.
On the plains of the Missouri. *M. Lewis.* ♃. Sept.—Nov. *v. s. in Herb. Lewis.*

7. A. foliis incanis pinnatis, pinnis tripartitis linearibus acutis, floralibus pinnatis 3-partitisve, caule adscendente, floribus globosis nutantibus. *Willd. sp. pl.* 3. *p.* 1838. *frigida.*

On the plains of the Missouri. *M. Lewis.* ♃. Oct. Nov. *v. s. in Herb. Lewis.*

biennis. 8. A. foliis glabris, radicalibus tripartito-pinnatis, caulinis inferioribus pinnatifidis, superioribus indivisis linearibus, caule stricto, floribus subrotundis subsessilibus erectis. *Willd. sp. pl.* 3. *p.* 1842.

A. hispanica. *Jacq. ic. rar.* 1. *t.* 172.

On the banks of the Missouri. ♂. *v. s. in Herb. Lambert.*

vulgaris. 9. A. foliis subtus tomentosis, caulinis pinnatifidis, laciniis lanceolatis subdentatis acutis, floralibus indivisis linearibus lanceolatis, floribus subsessilibus oblongis erectis, calycibus tomentosis. *Willd. sp. pl.* 3. *p.* 1845.

Icon. *Engl. bot.* 978.

On the banks of rivers: Canada to New England. ♃. Sept.—Nov. *v. v.*

canadensis. 10. A. subdecumbens, parce pubescens; foliis planis lineari-pinnatifidis, ramulis spicifloris, floribus subhemisphæricis, calycibus scariosis. *Mich. fl. amer.* 2. *p.* 129.

In the moveable sands about Hudson's Bay. *Michaux.* +. Receptacle smooth.

caudata. 11. A. erecta, glabra; foliis subsetaceo-pinnatifidis, laciniis convexis, ramulis confertis, racemis terminalibus longissimis strictis, floribus pedicellatis globoso-ovatis.—*Mich. fl. amer.* 2. *p.* 129.

On the gravelly banks of the Missouri. *Michaux.* +.

*** *Foliis compositis; caule simplicissimo.*

spithamæa. 12. A. pumila, sericeo-pubescens; foliis inferioribus linearibus superne pinnatifidis, laciniis paucis linearibus acutis, floralibus simplicibus, floribus racemosis brevipedunculatis hemisphæricis, calycibus scariosis.

In Labrador. *Colmaster.* ♃. Sept. Oct. *v. s. in Herb. Dickson.* Flower large, in proportion to the size of the plant; receptacle naked.

622. TANACETUM. *Gen. pl.* 1280.

vulgare. 1. T. foliis bipinnatis incisis serratis. *Willd. sp. pl.* 3. *p.* 1814.

Icon. *Oed. dan.* 871.

In cultivated grounds and on road sides: New England to Pensylvania. ♃. July—Sept. *v. v.* Common *Tansy* is probably introduced from Europe.

623. BACCHARIS. *Gen. pl.* 1285.

1. B. glaberrima, paniculato-ramosissima; foliis angusto-linearibus integerrimis, panicula composita multiflora, calycibus parvulis sub-20-floris.—*Mich. fl. amer.* 2. *p.* 125. ***angustifolia***

On the sea-coast: Carolina to Florida; on the banks of the Mississippi. *M. Lewis.* ♄. July—Sept. *v. v.*; *v. s. in Herb. Lewis.* Flowers white, as all the following are.

2. B. foliis lævibus cuneato-obovalibus superne dentatis, glomerulis florum axillaribus sessilibus remotis, squamis calycinis superne rufis.—*Mich. fl. amer.* 2. *p.* 125. ***glomeruliflora.***

In woods, on the coast of Virginia and Carolina. ♄. Aug.—Oct. *v. v.* Resembles the following.

3. B. foliis obovatis superne inciso-dentatis, panicula composita foliosa, fasciculis pedunculatis.—*Willd. sp. pl.* 3. *p.* 1915. ***halimifolia.***

Icon. *Schmidt arb.* 82. *Herm. parad.* 225. *Pluk. alm. t.* 27. *f.* 2.

On the sea-coast: Maryland to Florida. ♄. Sept.—Nov. *v. v.* The whole shrub is covered with a white powder.

624. CONYZA. *Gen. pl.* 1286.

1. C. herbacea, pubescens; foliis sessilibus lato-lanceolatis acutis serratis: serraturis apice cartilagineis, corymbis terminalibus fastigiatis coarctatis subaphyllis, calycinis squamis subulato-mucronatis flosculis brevioribus.—*Mich. fl. amer.* 2. *p.* 126. *exclus. syn. Walteri.* ***marylandica.***

Erigeron camphoratum. *Willd. sp. pl.* 3. *p.* 1960.

Icon. *Dill. elth. t.* 88. *f.* 104.

In overflowed places, near rivers and ponds: New York to Carolina. ⊙. Aug.—Oct. *v. v.* About a foot high; flowers reddish-purple; the whole plant emits a strong scent of camphor, only more disagreeable.

2. C. herbacea, subpubescens; foliis petiolatis ovato-lanceolatis acutissimis subrepando-denticulatis: denticulis ***camphorata.***

glandulosis, corymbis terminalibus et axillaribus folio brevioribus, calycinis squamis acutis flosculos subæquantibus.

Baccharis fœtida. *Willd. sp. pl.* 3. *p.* 1918. *Walt. fl. car.* 202.

Icon. *Dill. elth. t.* 89. *f.* 105.

On the banks of rivers and in large swamps: South Carolina and Georgia. ♃. Aug. Sept. *v. v.* Flowers purple, smaller than the preceding; stem about three feet high.

bifrons. 3. C. herbacea, subglutinosa; foliis amplexicaulibus spathulato-oblongis acutis serratis, paniculæ corymbulis capitato-glomeratis — *Willd. sp. pl.* 3. *p.* 1920.

C. amplexicaulis. *Mich. fl. amer.* 2. *p.* 126.

C. uliginosa. *Pers. syn.* 2. *p.* 427.

Baccharis viscosa. *Walt. fl. car.* 202.

Icon. *Pluk. alm. t.* 87. *f.* 4.

In low and overflowed fields: Carolina. ♃. July, Aug. *v. s. in Herb. Gronov.* Flowers pale yellow.

pycnostachya. 4. C. caule alato, foliis lanceolatis subtus tomentosis subintegerrimis, spica cylindrica densiflora.—*Mich. fl. amer.* 2. *p.* 126.

C. spicata. *Cav. ic.* 1. *p.* 8. *t.* 12?

Gnaphalium undulatum. *Walt fl. car.* 203.

In dry fields and barren woods: Carolina to Florida. ♃. July—Sept. *v. v.* A singular-looking species, nearly allied to *C. virgata.*

625. GNAPHALIUM. *Gen. pl.* 1282.

margaritaceum. 1. G. herbaceum; foliis lineari-lanceolatis sensim angustatis acutis, caule superne ramoso, corymbo fastigiato, floribus pedicellatis.—*Willd. sp. pl.* 3. *p* 1881.

Icon. *Engl. bot.* 2018.

In Canada and on the mountains of New York and New Jersey. ♃. Aug.—Oct. *v. v.* About eighteen inches high; flowers large, white, with a yellow disk, very handsome.

polycephalum. 2. G. herbaceum, erectum; foliis lineari-lanceolatis acutis, supra glabris, subtus pubescentibus, caule paniculato tomentoso, corymbis terminalibus coarctatis.—*Mich. fl. amer.* 2. *p.* 127.

G. obtusifolium. *Willd. sp. pl.* 3. *p.* 1880. *excl. syn. Dillenii.*

In old fields and woods: New England to Carolina. ☉. July—Sept. *v. v.* About a foot high, spreading; flowers yellowish-white, not shining.

3. G. herbaceum; foliis lineari-spathulatis subtus tomentosis, caule erecto simplicissimo, floribus sessilibus glomeratis terminalibus et axillaribus.—*Willd. sp. pl.* 3. *p.* 1884. *purpureum.*

Icon. *Dill. elth. t.* 109. *f.* 132.

In sandy barren soil: New York to Carolina. ♃. July—Oct. *v. v.* Not above a span high; flowers small, calyces purple.

4. G. sarmentis procumbentibus, caule simplicissimo, foliis radicalibus ovatis nervosis mucronatis, corymbo coarctato, floribus dioicis, squamis calycinis interioribus elongatis acutiusculis coloratis.—*Willd. sp. pl.* 3. *p.* 1882. *plantagineum.*

Icon. *Pluk. alm. t.* 348. *f.* 9.

In woods and on sunny hills: Canada to Carolina, and in the Allegany mountains. ♃. May—July. *v. v.* Not above six inches high; leaves large, resembling plaintain leaves; flowers white.

5. G. caule non sarmentoso simplicissimo, foliis radicalibus lanceolatis, floribus terminalibus aggregatis sessilibus, calycinis squamis interioribus elongatis acutis membranaceis. *Willd. sp. pl.* 3. *p.* 1883. *alpinum.*

Icon. *Fl. dan.* 332.

In Labrador. *Colmaster.* ♃. *v. s. in Herb. Dickson.* Not above four inches high; resembling *G. dioicum.*

6. G. caule herbaceo simplicissimo erecto, foliis angusto-lanceolatis utrinque attenuatis et lanatis, floribus terminalibus axillaribusque sessilibus spicatis. *Willd. sp. pl.* 3. *p.* 1884. *sylvaticum.*

Icon. *Fl. dan.* 254.

In stony woods: New York and Canada. ♃. July, Aug. *v. v.* About a foot or less high; calyces shining, straw-coloured with brown.

7. G. caule herbaceo erecto ramoso, foliis obovato-spathulatis subtus pubescentibus, floribus axillaribus et terminalibus glomeratis spicatis. *Willd. sp. pl.* 3. *p.* 1887. *americanum.*

G. spathulatum. *Lam. encycl.* 2. *p* 728.

In dry, sunny, and rocky situations: Pensylvania to Virginia. ☉. July – Sept. *v. v.* About a span high; flowers small, pale straw-coloured.

uliginosum. 8. G. caule herbaceo ramoso diffuso lanato, foliis lineari-lanceolatis utrinque angustatis tomentosis, floribus terminalibus congestis. *Willd. sp. pl.* 3. *p.* 1891.

Icon. *Fl. dan.* 859.

In exsiccated pools: Canada to Virginia. ☉. Aug. Sept. *v. v.* About a span high; flowers small, calyces brown.

germanicum. 9. G. herbaceum, caule erecto dichotomo, foliis lineari-lanceolatis acutis tomentosis, floribus globoso-capitatis alaribus terminalibusque. *Willd. sp. pl.* 3. *p.* 1894.

Filago germanica. *Sp. pl.* 1311.

Icon. *Fl. dan.* 997. *Engl. bot.* 946.

In dry fields and pastures: Pensylvania to Virginia. ☉. July, Aug. *v. v.* About a span high: calyces straw-coloured.

626. BELLIS. *Gen. pl.* 1300.

integrifolia. 1. B. caulescens, divaricato-ramosa; foliis integerrimis, inferioribus obovatis, supremis lanceolatis, calycinis foliolis acutissimis pilo acuminatis.—*Mich. fl. amer.* 2. *p.* 131.

On banks of rivers and on shady hills in Tennassée. *Michaux.* +.

627. CHRYSANTHEMUM. *Gen. pl.* 1307.

Leucanthemum. 1. C. foliis amplexicaulibus lanceolatis serratis, basi inciso-dentatis, caule erecto ramoso. *Willd. sp. pl.* 3. *p.* 2142.

Icon. *Fl. dan.* 994. *Engl. bot.* 601.

In meadows and fields: common every where, and probably introduced from Europe. ♃. June, July. *v. v.* A very troublesome weed; flowers large, white, resembling a daisy.

arcticum. 2. C. foliis radicalibus tripartitis inciso-dentatis, caulinis cuneiformibus 3-partitis obtusis. *Willd. sp. pl.* 3. *p.* 2146.

Icon. *Gmel. fl. sib.* 2. *t.* 84.

On the north-west coast. ♃. *v. s. in Herb. Lambert.* About a foot high; flowers purplish-white, the size of the preceding species.

628. PYRETHRUM. *Smith fl. brit.* 2. *p.* 900.

1. P. foliis lanceolatis, inferioribus apice serratis, superioribus integerrimis, ramis corymbosis. *Willd. sp. pl.* 3. *p.* 2151. *serotinum.*

Chrysanthemum serotinum. *Sp. pl.* 1251.

Icon. *Pluk. alm. t.* 17. *f.* 2. *Moris. hist.* 3. *s.* 6. *t.* 9. *f.* 11.

In North America. ♃. Oct. Nov. *v. s. in Herb. Lambert.* Flowers white, smaller than *Chrysanthemum Leucanthemum.*

629. ARNICA. *Gen. pl.* 1296.

1. A. foliis remote dentatis subtus lanato-hirsutis, radicalibus petiolatis oblongis basi angustatis, caulinis alternis oblongo-lanceolatis, caule unifloro.—*Willd. sp. pl.* 3. *p.* 2108. *Doronicum.*

Icon. *Jacq. fl. austr.* 1. *t.* 92. *Allion. fl. ped. t.* 17. *f.* 1 & 2.

In Labrador. *Colmaster.* ♃. July, Aug. *v. s. in Herb. Dickson.* Not above a span high; flowers large, yellow.

2. A. glabra; foliis integerrimis utrinque glabris acutis trinervibus, radicalibus spathulato-lanceolatis basi in petiolum angustatis, caulinis oppositis lanceolatis sessilibus, caule unifloro. *plantaginea.*

In Labrador. *Colmaster.* ♃. July, Aug. *v. s. in Herb. Dickson.* About a span high; flower the size of the preceding, yellow, the rays broad and 3-dentated.

3. A. pubescens; foliis radicalibus lanceolatis obtusiusculis basi attenuatis petiolatis trinervibus, caulinis oppositis remotis linearibus, caule unifloro. *fulgens.*

On the banks of the Missouri. ♃. *v. s.* About a foot or more high, very slender; leaves on the stem generally two pairs; flowers somewhat smaller than the preceding, of a very deep and beautiful yellow.

4. A. hirsuta; foliis radicalibus decussatim oppositis oblongo-ovatis subdentatis, caule subaphyllo summitate in pedunculos 1-floros diviso. *Claytoni.*

Doronicum nudicaule. *Mich. fl. amer.* 2. *p.* 121.
Doronicum acaule. *Walt. fl. car.* 205.
Doronicum foliis Plantaginis, &c. *Clayt. fl. virg. no.* 37.
In shady woods: Virginia to Florida. ♃. July, Aug. *v. s. in Herb. Gronov. nec non Walter.* About two feet high; flowers large, of a fine yellow.

maritima. 5. A. foliis lanceolatis, inferioribus serratis, caule folioso multifloro. *Willd. sp. pl.* 3. *p.* 2110.
On the north-west coast. ♃. *v. s. in Herb. Banks.* Flowers large, very handsome.

630. CINERARIA. *Gen. pl.* 1294.

integrifolia. β. minor. 1. C. lanato-tomentosa; caule simplici, foliis inferioribus spathulatis subdentatis, superioribus angusto-lanceolatis integerrimis erectis, floribus subumbellatis.—*Willd. sp. pl.* 3. *p.* 2082.
Senecio tomentosus. *Mich. fl. amer.* 2. *p.* 119.
On the banks of the Missouri. *M. Lewis.* In Carolina near Flat-rock. *Michaux.* ♃. Aug. Sept. *v. s. in Herb. Lewis.* About a foot high; flowers the size of *Senecio Jacobæa*, yellow; the rays very short.

heterophylla. 2. C. lanato-tomentosa; foliis radicalibus longe petiolatis spathulato-obovatis, ovatis acutiusculis pinnatifidisque, caulinis 2–3-linearibus pinnatifidis, floribus corymbosis.
On dry sunny rocks, in the Blue-mountains: Pensylvania. ♃. May, June. *v. v.* About a span high; flowers deep yellow, the size of the preceding.

canadensis. 3. C. villosa; foliis pinnatifidis subvillosis, laciniis sinuatis, floribus paniculatis.—*Willd. sp. pl.* 3. *p.* 2085.
In Canada. *Kalm.* ♃. +. Resembles *C. maritima*, but is not tomentose.

631. SENECIO. *Gen. pl.* 1290.

* *Floribus flosculosis: radiis nullis.*

vulgaris. 1. S. foliis amplexicaulibus pinnatifidis dentatis, floribus corymboso-coarctatis.—*Willd. sp. pl.* 3. *p.* 1979.
Icon. *Fl. dan.* 513. *Engl. bot.* 747.
In cultivated grounds as a weed; about Philadelphia and some other places in Pensylvania; introduced from Europe. ☉. April—Oct. *v. v.* Flowers, as all the following, yellow.

2. S. caule virgato-paniculato, foliis amplexicaulibus oblongis acutis inæqualiter acuteque profunde dentatis, calycibus lævibus.—*Willd. sp pl.* 3. *p.* 1974. *hieracifolius.*

Icon. *Pluk. phyt. t.* 112. *f.* 1. mala.

On road sides and in newly cleared grounds: Canada to Carolina. ☉. July, Aug. *v. v.* From two to five feet high. This is one of the plants which spring up in the most remote western countries, when the land is cleared of timber, particularly when the brushwood is burnt on the ground; from which circumstance it is generally known by the name of *Fire-weed.* I have frequently found it covering a square piece of cleared land, when there was not a single plant to be found in any other place for a considerable distance round it.

3. S. glaber; foliis radicalibus spathulatis serratis in petiolum attenuatis, caulinis pinnatifidis dentatis remotissimis. pedunculis elongatis umbellato-corymbosis. *elongatus.*

On rocks, near the banks of rivers: about Easton, Pensylvania. ♃. July, Aug. *v. v.* Resembling No. 8, but is destitute of a ray.

4. S. glaber; foliis radicalibus longe petiolatis ovato-subrotundis subcordatis dentatis, caulinis 2 remotis pinnatifidis dentatis, pedunculis brevibus subternis umbellatis. *pauciflorus.*

S. tussilaginoides. *Walt. fl. car.* 208?

In Labrador. *Colmaster.* In Carolina. *Walter.* ♃. *v. s. in Herb. Dickson.* Not above a span high.

** *Floribus radiatis.*

5. S. caule simplicissimo rigide erecto subnudo, foliis omnibus lanceolatis, radicalibus subintegris inciso-dentatisque, corymbo paucifloro, calycibus glabellis, radiis parvulis.—*Mich. fl. amer.* 2. *p.* 120. *pauperculus.*

About lakes: Canada. *Michaux.* +. A small plant; flowers the size of *S. Jacobæa.*

6. S. foliis radicalibus longissime petiolatis orbiculatis subcordatis crenatis, caulinis paucis remotissimis lineari-oblongis basi dilatatis inciso-dentatis, pedunculis brevissimis hirsutis subumbellatis, calycibus glabellis, radiis paucis brevissimis. *gracilis.*

S. strictus. *Herb. Banks. mss.*

On the rocky banks of rivers; Pensylvania. ♃. May —Aug. *v. v.; v. s. in Herb. Banks.* About a foot

high, very slender; flowers the smallest of all the species here enumerated.

obovatus. 7. S. foliis radicalibus obovatis crenato-serratis petiolatis, caulinis pinnatifidis dentatis, floribus subumbellatis longe pedunculatis, caule glabriusculo.—*Willd. sp. pl.* 3. *p.* 1999.

S. obtusatus. *Herb. Banks. mss.*

On the side of hills and rocks, near rivers: New York to Virginia. ♃. June, July. *v. v.; v. s. in Herb. Banks.* Flowers nearly the size of *S. Jacobæa.*

Balsamitæ. 8. S. foliis radicalibus oblongis serratis petiolatis, caulinis inferioribus lyrato-pinnatifidis serratis, summis pinnatifidis dentatis, floribus subumbellatis, caule pedunculisque basi villoso.—*Willd. sp. pl.* 3. *p.* 1998.

S. lyratus. *Mich. fl. amer.* 2. *p.* 120.

S. glabellus. *Lam. encycl.* 7. *p.* 102.

In rocky fertile soil: Pensylvania to Virginia. ♃. June, July. *v. v.* Flowers the size of the preceding.

aureus. 9. S. foliis radicalibus ovatis cordatis serratis petiolatis, caulinis pinnatifidis dentatis, lacinia terminali lanceolata, pedunculis subumbellatis incrassatis.—*Willd. sp. pl.* 3. *p.* 1998.

In shady woods, about rocks: Canada to Virginia. ♃. June, July. *v. v.* Flowers the same size as the preceding.

Cymbalaria. 10. S. foliis radicalibus petiolatis subrotundis basi truncatis dentatis, petiolis appendiculatis sublyratis, caulinis sessilibus linearibus inciso-dentatis, caule subunifloro.

On the north-west coast. *D. Nelson. v. s. in Herb. Banks.*

canadensis. 11. S. foliis bipinnatis linearibus glabris, summis pinnatis, corymbis compositis fastigiatis.—*Willd. sp. pl.* 3. *p.* 1996.

In Canada. *Kalm.* +.

ciliatus. 12. S. caule piloso, foliis lanceolato-linearibus ciliatis.—*Walt. fl. car.* 208.

In Carolina. *Walter.* +. From six to eight feet high; rays of the flower white.

632. TUSSILAGO. *Gen. pl.* 1289.

1. T. thyrso fastigiato, floribus radiatis, foliis subrotundo-cordatis inæqualiter dentatis subtus tomentosis. *Willd. sp. pl.* 3. *p.* 1968. *frigida.*
Icon. *Fl. dan.* 61. *Gmel. fl. sib.* 2. *t.* 70.
In Canada, and on the highest peaks of the Vermont and New Hampshire mountains. ♃. May. *v. v.* Flowers of the ray white, disk pale purple.

2. T. thyrso ovato fastigiato, floribus radiatis, foliis radicalibus oblongis acutis sagittatis integerrimis, lobis obtusis. *Herb. Banks. mss.* *sagittata.*
On Hudson's Bay. *Hutchinson.* ♃. *v. s. in Herb. Banks.*

3. T. thyrso fastigiato, floribus obsolete radiatis, foliis subrotundo-cordatis semi-septemlobis inciso-dentatis subtus tomentosis. *Willd. sp. pl.* 3. *p.* 1972. *palmata.*
Icon. *Ait. kew.* 3. *t.* 11.
In Labrador. *Colmaster.* ♃. April, May. *v. s. in Herb. Dickson.*

633. INULA. *Gen. pl.* 1295.

1. I. foliis amplexicaulibus ovatis rugosis subtus tomentosis, calycum squamis ovatis. *Willd. sp. pl.* 3. *p.* 2089. *Helenium.*
Icon. *Fl. dan.* 728. *Engl. bot.* 1546.
In low meadows and on road sides: New England to Pensylvania; originally brought from Europe. ♃. July, Aug. *v. v.* A tall rough-looking plant; flowers large, and, as all the rest, yellow.

2. I. villosa; foliis sessilibus oblongo-lanceolatis basi attenuatis obtusis glanduloso-denticulatis, inferioribus petiolatis serratis, pedunculis axillaribus corymbosis glanduloso-pilosis.—*Willd. sp. pl.* 3. *p.* 2099. *excl. syn. Plukenetii.* *mariana.*
I. glandulosa. *Lam. encycl.* 3. *p.* 259.
Icon. *Mill. dict. ic. t.* 57.
In dry sandy woods and fields: New Jersey to Carolina. ♃. Aug.—Oct. *v. v.* A foot or more high; flowers the size of *I. Britannica.*

3. I. hispido-pilosa, scaberrima; foliis arcte sessilibus oblongis acutis superne subdentatis utrinque scabris, pedunculis axillaribus corymbosis hispidis. *scabra.*
I. subaxillaris. *Lam. encycl.* 3. *p.* 259. *

Icon. *Pluk. mant.* 340. *f.* 1. *no.* 5.

In the pine-barrens of South Carolina. ♃. Aug. Sept. *v. s. in. Herb. Enslen.* About two feet high; flowers smaller than the preceding.

falcata. 4. I. lanato-villosa; foliis sessilibus linearibus acutissimis subfalcato-patentibus nervosis utrinque pilosis, pedunculis paucis axillaribus corymbosis calycibusque villosis.

Aster gracilentus. *Herb. Banks. mss.*

In sandy pine-woods: New Jersey. ♃. Sept. Oct. *v. v.* Not above a span high; flowers the size and shape of No. 2.

gossypina. 5. I. lanuginoso-candicans; foliis sessilibus oblongo-spathulatis obtusis integerrimis, corymbo subfastigiato.—*Mich. fl. amer.* 2. *p.* 122.

Inula lanata. *Herb. Banks. mss.*

On the sea-coast of Carolina and Florida. ♃. Aug.—Oct. *v. s.* About a foot high; flowers the size of No. 3.

graminifolia. 6. I. argenteo-sericea; caule simplicissimo, foliis longissime lanceolato-linearibus integerrimis erectis nervosis, corymbo composito laxo, calycibus turbinatis, squamis acutissimis carina serrato-glandulosis.—*Mich. fl. amer.* 2. *p.* 122.

In sandy dry woods: Pensylvania to Florida. ♃. Aug.—Oct. *v. v.* About a foot high; flowers small.

argentea. 7. I. sericea; foliis lanceolatis trinerviis erectis flexuosis, corymbo subcomposito stricto, squamis calycinis planis pubescentibus.—*Pers. syn.* 2. *p.* 452.

In Pensylvania. *Persoon.* ♃. +. Flower a great deal larger than the preceding species, with which it has a great affinity.

634. ERIGERON. *Gen. pl.* 1287.

alpinum. 1. E. villosum; caule plerumque unifloro, calycibus villosis, radio patente, foliis lanceolatis obtusiusculis.—*Willd. sp. pl.* 3. *p.* 1959. *Smith fl. brit.* 2. *p.* 877.

Icon. *Engl. bot.* 464. *Fl. dan.* 292.

In Labrador. *Colmaster.* ♃. June, July. *v. s. in Herb. Dickson.* The Labrador specimen is not above two inches high; flower large, rays purple.

bellidifolium. 2. E. hirsutum, incanum; foliis radicalibus obovatis subserratis, caulinis paucis distantibus lanceolatis integer-

rimis, caule sub-3-floro, radiis elongatis.—*Willd. sp. pl.* 3. *p.* 1958.

E. serpentaria. *Herb. Banks. mss.*

E. pulchellum. *Mich. fl. amer.* 2. *p.* 224.

E. caule simplicissimo, &c. *Gron. fl. virg.* 122.

In shady woods, principally throughout the mountains: Canada to Carolina. ♃. June—Aug. *v. v.* A foot or eighteen inches high; flowers large, rays blueish-white; sometimes it produces only one flower, and sometimes more than three. It is known by the name of *Poor Robin's Plantain.*

3. E. glabrum; foliis radicalibus ovali-lanceolatis acutis subdentatis, caule simplicissimo subaphyllo elongato, corymbis terminalibus paucifloris, radiis longitudine calycis.—*Mich. fl. amer.* 2. *p.* 224. *nudicaule.*

Aster vernus. *Willd. sp. pl.* 3. *p.* 2029. *secundum specimen Clayton.*

In low grounds of Carolina and Georgia. ♃. June—Aug. *v. v.; v. s. in Herb. Gronov.* A foot high; flowers small, rays blueish-white.

4. E. tenue pubescens; foliis lanceolatis acutis, inferioribus sublyratis grosse dentatis supremis integerrimis, caule subsimplici summitate 3-floro, radiis calyce hemisphærico duplo longioribus.—*Lam. encycl.* 8. *p.* 491. *quercifolium.*

Icon. *Lam. illustr. t.* 681. *f.* 4.

In Carolina and Florida. ♃. July, Aug. *v. s. in Herb. Enslen.* Not above a span high; flowers pale blue or white.

5. E. pubescens; foliis cuneato-oblongis rariter inciso-dentatis, caulinis semiamplexicaulibus, caule debili simplici superne corymboso, pedunculis elongatis unifloris, radiis capillaceis calyce hemisphærico duplo longioribus.—*Willd. sp. pl.* 3. *p.* 1957. *Mich. fl. amer.* 2. *p.* 223. *philadelphicum.*

In fields and dry woods: Canada to Carolina. ♃. Aug. Sept. *v. v.* A delicate and handsome plant, from one to two feet high; flowers the size of a common daisy, rays of a beautiful blueish-purple.

6. E. pubescens; foliis oblongis dentatis amplexicaulibus, superioribus integerrimis, pedunculis corymbosis incrassatis, inferioribus elongatis, calycinis squamis carina pilosis, radiis calyce duplo longioribus.—*Willd. sp. pl.* 3. *p.* 1958. *purpureum.*

In pastures and on fertile hills, near the banks of rivers:

Canada to Virginia. ♃. July, Aug. *v. v.* A foot or eighteen inches high; flowers large, purple, and very ornamental.

strigosum. 7. E. strigoso-pilosum; foliis lanceolatis utrinque attenuatis medio grosse paucidentatis seu integerrimis, floribus corymboso-paniculatis.—*Willd. sp. pl.* 3. *p.* 1956.
In fields and dry pastures; common: Canada to Virginia. ♂. July, Aug. *v. v.* A very troublesome weed; flowers white, resembling the common daisy.

nervosum. 8. E. albido-pubescens; foliis lineari-lanceolatis integerrimis sericeis nervosis, floribus paniculatis.— *Willd. sp. pl.* 3. *p.* 1953.
In old fields and woods; common: Canada to Virginia. ♃. July—Sept. *v. v.* Likewise a troublesome weed; flowers resembling the preceding.

heterophyllum. 9. E. foliis radicalibus subrotundo-ovatis profunde dentatis petiolatis, caulinis lanceolatis acutis medio serratis, corymbo terminali. *Willd. sp. pl* 3. *p.* 1956.
Aster annuus. *Willd. sp. pl.* 3. *p.* 2041.
Icon. *Fl. dan.* 486.
In old waste fields and on road sides; common. ♂. June—Aug. *v. v.* Flowers white.

canadense. 10. E. caule hispido paniculatim ramosissimo, foliis lanceolato-linearibus ciliatis, calycibus cylindricis, radiis multiplici serie confertis brevissimis — *Willd. sp. pl.* 3. *p.* 1954.
In dry fields and on road sides; common: Canada to Florida. ⊙. July—Sept. *v. v.* A common weed; flowers small.

divaricatum. 11. E. divaricato-ramosissimum, subfastigiato-paniculatum; foliis subulatis, floribus brevissime radiatis, corollulis disci 4-fidis.—*Mich. fl. amer.* 2. *p.* 123.
In fields and meadows of Kentucky, and on the banks of the Missouri and Mississippi. ⊙. July—Sept. *v. s.* Resembles the preceding.

longifolium. 12. E. glaberrimum: caule virgatim-paniculato, ramis strictis, foliis longissime-linearibus strictis, calycibus ovatis, radiis vix calyce longioribus.— *Lam. encycl.* 8. *p.* 480.
In Carolina. ♃. July—Sept. *v. s.* About two feet high; rays yellow.

hyssopifolium. 13. E. caule ramis sterilibus paniculato: paucis in pedunculos nudos protractis, foliis linearibus glabris ciliatis,

radiis calyce cylindraceo multo longioribus.—*Mich. fl. amer.* 2. *p.* 123.

E. carolinianum. *Willd. sp. pl.* 3. *p.* 1953.

Icon. *Dill. elth. t.* 306. *f.* 394.

In low grounds: Canada to Carolina; rare. ♃. July—Sept. *v. s.* Resembles the preceding; rays yellow.

14. E. pilosum, subacaule; foliis radicalibus longe petiolatis triplicato-3-partitis, laciniis linearibus divaricatis, caulinis linearibus plerumque indivisis, caule superne nudo unifloro. *compositum.*

On the banks of the Kooskoosky. *M. Lewis.* ♃. July, Aug. *v. s.; v. v. cultum.* Not above a span high; flowers resembling a daisy exceedingly; they change during their flowering, from white to a lively pale red.

635. SOLIDAGO. *Gen. pl.* 1292.

* *Racemis secundis; foliis triplinervibus.*

1. S. caule villoso, foliis lanceolatis serratis triplinervibus scabris, racemis paniculatis secundis recurvis, ligulis abbreviatis. *Willd. sp. pl.* 3. *p.* 2055. *canadensis.*

Icon. *Pluk. alm. t.* 263. *f.* 1.

In hedges, old fields, and along fences: Canada to Pensylvania. ♃. July—Sept. *v. v.; v. s. in Herb. Banks. et Lambert.* From eighteen inches to five feet high; the flowers of all the following species are, like the present, yellow and small.

2. S. caule villoso erecto, foliis lanceolatis serratis triplinervibus scabris subtus villosis, racemis spiciformibus erectis, innuptis nutantibus, ligulis abbreviatis. *Willd. sp. pl.* 3. *p.* 2055. *procera.*

In swamps, hedges, and about fences: Canada to Virginia. ♃. July—Sept. *v. v.; v. s. in Herb. Banks.* From four to seven feet high.

3. S. caule erecto tereti lævi, foliis lineari-lanceolatis serratis glabris margine asperis triplinervibus, racemis paniculatis secundis, pedunculis pubescentibus.—*Willd. sp. pl.* 3. *p.* 2056. *serotina.*

In woods and hedges: New England to Pensylvania. ♃. Sept. Oct. *v. v.; v. s. in Herb. Banks.*

4. S. caule erecto glabro, foliis lanceolatis serratis margine scabris obsolete triplinervibus, racemis paniculatis se- *gigantea.*

cundis, pedunculis hirtis, ligulis abbreviatis. *Willd. sp. pl.* 3. *p.* 2056.

In open low places, on the side of fertile hills: New England to Virginia. ♃. Aug.—Oct. *v. v.; v. s. in Herb. Banks.* From four to seven feet high.

ciliaris. 5. S. caule erecto glabro, foliis lanceolatis subtriplinervibus glabris margine scabris subserratis, racemis paniculatis secundis, pedunculis glabris, bracteis ciliatis, ligulis abbreviatis. *Willd. sp. pl.* 3. *p.* 2056.

In Pensylvania. *Muhlenberg.* ♃. +.

reflexa. 6. S. caule erecto villoso, foliis lanceolatis subserratis triplinervibus scabris reflexis, ramis paniculatis subsecundis reflexis. *Willd. sp. pl.* 3. *p.* 2056.

In pine-woods and old fields: New Jersey to Carolina. ♃. Aug. Sept. *v. v.; v. s. in Herb. Banks.*

lateriflora. 7. S. caule erecto pilosiusculo, foliis lanceolatis subtriplinervibus glabris margine scabris, inferioribus subserratis, racemis paniculatis subrecurvis secundis. *Willd. sp. pl.* 3. *p.* 2057.

In old fields and dry woods: Canada to Carolina. ♃. Aug.—Oct. *v. v.; v. s. in Herb. Banks.* Not more than half the size of No. 1; flowers larger than any of the preceding.

** *Racemis secundis; foliis venosis.*

aspera. 8. S. caule erecto tereti piloso, foliis ovatis subellipticis scaberrimis rugosis serratis enervibus, racemis paniculatis secundis. *Willd. sp. pl.* 3. *p.* 2057.

Icon. *Dill. elth. t.* 305. *f.* 392.

In barren dry fields and woods: New York to Carolina. ♃. Sept.—Nov. *v. v. v. s. in Herb. Banks.*

altissima. 9. S. caule erecto hirto, foliis lanceolatis inferioribus profunde serratis scaberrimis rugosis, paniculis secundis. *Willd. sp. pl.* 3. *p.* 2057.

Icon. *Mart. cent.* 14.

vulgaris. *α.* S. caule 5-pedali piloso, serraturis profundis inæqualibus, racemis divaricatis. *Ait. kew.* 3. *p.* 212.

recurvata. *β.* S. caule 3-pedali villoso, serraturis profundis subæqualibus. *Ait. l. c.*

virginiana. *γ.* S. caule 5-pedali villosissimo, serraturis magnis, racemis vix divergentibus. *Ait. l. c. Mill. dict.*

In hedges and fields; common. ♃. Aug.—Oct. *v. v.; v. s. in Herb. Banks. et Lambert.* It is a very variable species, and scarcely two individuals look alike.

10. S. caule erecto hirto, foliis lanceolatis scaberrimis rugosis inferioribus adpresso-serratis, racemis paniculatis secundis patentissimis. *Willd. sp. pl.* 3. *p.* 2058. *Mill. dict.* *rugosa.*

S. altissima ε. *Ait. kew.* 3. *p.* 213.

Icon. *Dill. elth. t.* 308. *f.* 396.

In dry barren soil: Canada to Virginia. ♃. Aug.—Oct. *v. v.; v. s. in Herb. Banks. et Lambert.*

11. S. caule erecto villoso, foliis lanceolatis molliusculis serratis enervibus, racemis paniculatis secundis. *Herb. Banks. mss.* *villosa.*

S. altissima β. *Ait. kew.* 3. *p.* 213.

S. pilosa. *Mill. dict.*

In fields and woods; frequent. ♃. Aug.—Oct. *v. v.; v. s. in Herb. Banks. et Lambert.* From eighteen inches to three feet high.

12. S. caule erecto hirto sulcato, foliis oblongis utrinque attenuatis acuminatis, supra glabris, subtus rugosis scabris, medio adpresso-serratis, racemis secundis.—*Willd. sp. pl.* 3. *p.* 2059. *scabra.*

In old fields and about fences: Pensylvania to Virginia. ♃. Aug.—Oct. *v. v.; v. s. in Herb. Lambert.*

13. S. caule erecto tereti hirto, foliis oblongis acutis subamplexicauli-sessilibus glabris margine scabris rariter obsolete dentatis, panicula nuda secunda pyramidata, ramis reflexis, pedunculis glabris. *pyramidata.*

In pine-barrens of Georgia. *Enslen.* ♃. Aug. Sept. *v. s. in Herb. Enslen.* About two feet high; the leaves decrease toward the beginning of the panicle, which consists of lively yellow and very small flowers.

14. S. caule erecto tomentoso, foliis caulinis lanceolatis hispidis integerrimis, radicalibus subcuneiformibus serratis, racemis paniculatis secundis. *Willd. sp. pl.* 3. *p.* 2059. *nemoralis.*

In sandy and barren fields; common: Canada to Carolina. ♃. Aug.—Oct. *v. v.; v. s. in Herb. Banks.* The whole plant has a gray aspect, and is about a foot, or sometimes two, high.

15. S. caule erecto glabro, foliis ellipticis serratis glabris, radicalibus oblongo-spathulatis, racemis paniculatis secundis patentibus, pedunculis pubescentibus. *Willd. sp. pl.* 3. *p.* 2059. *patula.*

In shady woods, in fertile soil: New York to Virginia. ♃. Sept. Oct. *v. v.* Two feet high.

ulmifolia. 16. S. caule erecto glabro striato, foliis ellipticis profunde serratis acuminatis subtus villosis, radicalibus obovatis, racemis paniculatis secundis, pedunculis villosis, ligulis abbreviatis.—*Willd. sp. pl.* 3. *p.* 2060.

In swamps and shady woods: New York to Virginia. ♃. Aug.—Oct. *v. v.*

arguta. 17. S. caule erecto glabro, foliis glabris argute inæqualiter serratis, caulinis ellipticis, radicalibus ovato-oblongis, racemis paniculatis secundis, ligulis elongatis. *Willd. sp. pl.* 3. *p.* 2060.

In woods and meadows: Canada to Virginia. ♃. Sept. —Nov. *v. v.; v. s. in Herb. Banks.*

juncea. 18. S. caule erecto glabro, foliis lanceolatis glabris margine scabris, inferioribus serratis, racemis paniculatis secundis. *Willd. sp. pl.* 3. *p.* 2060.

In sandy fields and woods: New Jersey to Carolina. ♃. Aug.—Oct. *v. v.; v. s. in Herb. Banks.*

elliptica. 19. S. caule erecto glabro, foliis ellipticis lævibus serratis, racemis paniculatis secundis, ligulis mediocribus. *Willd. sp. pl.* 3. *p.* 2060.

S. latissimifolia. *Mill. dict.*

In shady woods, among rocks: New York to Virginia. ♃. Aug.—Oct. *v. v.; v. s. in Herb. Banks.*

asperata. 20. S. caule paniculato-corymboso, racemis suberectis, floribus adscendentibus, foliis lanceolatis serratis scabris. *Herb. Banks. mss.*

In Canada. ♃. *v. s. in Herb. Banks.*

recurvata. 21. S. caule erecto pubescente, foliis lanceolatis serratis margine scabris, racemis elongatis secundis recurvatis paniculatis. *Willd. enum.* 889.

In shady woods: Pensylvania and Virginia. ♃. Sept. —Nov. *v. v.*

sempervirens. 22. S. caule erecto glabro, foliis lineari-lanceolatis subcarnosis lævibus integerrimis margine scabris, racemis paniculatis secundis, pedunculis pilosis. *Willd. sp. pl.* 3. *p.* 2060.

Icon. *Pluk. alm. t.* 235. *f.* 5. *Moris. hist.* 3. *s.* 7. *t.* 23. *f.* 15.

In swamps and on the banks of rivers: Canada to Pensylvania. ♃. Sept.—Nov. *v. v.; v. s. in Herb. Banks. et Lambert.*

virgata. 23. S. caule glabro simplicissimo, foliis subcuneato-lanceolatis obtusis integerrimis glaberrimis appressis, supe-

rioribus sensim minoribus, ramis paniculæ elongatis apice racemifloris, pedunculis glabris secundis.—*Mich. fl. amer.* 2. *p.* 117.

In shady wet woods of Lower Carolina and Georgia. ♃. Aug.—Oct. *v. v.* About two foot high; extremely smooth and slender.

24. S. caule erecto pubescente, foliis lineari-lanceolatis integerrimis glabris margine scabris, racemis paniculatis secundis. *Willd. sp. pl.* 3. *p.* 2061. *odora.*

Icon. *Pluk. alm.* 116. *f.* 6.

In dry sunny situations, on fertile woodlands: Canada to Carolina; principally throughout the Allegany mountains. ♃. Aug. Oct.—*v. v.; v. s. in Herb. Banks.* This is most generally and principally known among the inhabitants by the name of *Golden-rod*, and used as a wholesome tea. The flowers, gathered when fully expanded, and carefully dried, give a most agreeable substitute for tea, which for some time has been an article of exportation to China, where it fetches a high price.

25. S. caule erecto tereti aspero, foliis arcte sessilibus reflexis lineari-lanceolatis mucronatis subtus subcarinatis margine asperis, panicula racemis recurvatis.—*Mich. fl. amer.* 2. *p.* 117. *retrorsa.*

In open swamps of Virginia and Carolina. ♃. Aug. Sept. *v. v.*

*** *Racemis erectis.*

26. S. glabra, suffruticosa; foliis lanceolatis obtusis enervibus, panicula composita multiflora, fasciculis erectis, calycibus angusto-oblongis 5-floris, radio unico.—*Mich. fl. amer.* 2. *p.* 116. *pauciflosculosa.*

In the sand-barrens of Virginia and Carolina. ♃. Aug. —Oct. *v. v.*

27. S. caule foliisque ellipticis pilosis, inferioribus serratis, ramis foliolosis, racemis erectis, foliolis calycinis obtusis. *Willd. sp. pl.* 3. *p.* 2061. *bicolor.*

Icon. *Pluk. alm. t.* 114. *f.* 3.

In woods and on dry hills: Canada to Carolina. ♃. Aug.—Oct. *v. v.; v. s. in Herb. Banks.* It is easily distinguished from the rest, by the short and close racemes and white rays.

28. S. caule erecto villoso, foliis ellipticis scabriusculis petiolatis, racemis erectis, ligulis elongatis. *Willd. sp. pl.* 3. *p.* 2062. *petiolaris.*

In dry sandy soil: New Jersey to Carolina. ♃. Sept. —Nov. *v. v.; v. s. in Herb. Banks.*

stricta. 29. S. caule erecto glabro, foliis caulinis lanceolatis integerrimis glabris margine scabris, radicalibus serratis, racemis paniculatis erectis, pedunculis glabris. *Willd. sp. pl.* 3. *p.* 2062.

In sandy woods: New Jersey to Carolina. ♃. Aug. —Nov. *v. v.; v. s. in Herb. Banks. et Lambert.* About two feet high, very smooth.

lanceolata. 30. S. caule hirto angulato ramosissimo, foliis lanceolato-linearibus integerrimis erectiusculis 3—5-nervibus scabriusculis: nervis subtus pilosis, axillis nudis, corymbis terminalibus fastigiatis, ramulis capitatis, ligulis altitudine disci.—*Willd. sp. pl.* 3. *p.* 2062.

Chrysocoma graminifolia. *Sp. pl.* 1178.

In fields and meadows, on the side of woods and rivers: Canada to Pensylvania. ♃. Sept.—Nov. *v. v.; v. s. in Herb. Banks. et Lambert.* From four to five feet high; flowers small.

tenuifolia. 31. S. caule scabro angulato corymboso-ramoso, foliis angustissime-linearibus patulis obsolete 3-nervibus scabris, axillis foliosis, corymbis terminalibus fastigiatis, ramulis capitatis, ligulis disco vix altioribus.

S. lanceolata β. minor. *Mich. fl. amer.* 2. *p.* 116.

In pine-barrens: New Jersey to Carolina. ♃. Sept. Oct. *v. v.* Not above a foot high; leaves very small and narrow.

Sarothræ. 32. S. caule angulato scabro inferne nudo, superne corymboso, ramis summitate paucifloris, foliis linearibus stricte-appressis obsolete 3-nervibus utrinque scabris, axillis nudis, ligulis disco duplo longioribus.

On the plains of the Missouri. *M. Lewis.* ♃. Sept. *v. s in Herb. Lewis.* About a span high; resembling *Hypericum Sarothra* in general habit very much. This and the two preceding have a great affinity to one another; but I consider them good and permanent species, as there are no intermediate varieties, which might lead to the suspicion that all belong to one genuine species.

cæsia. 33. S. caule lævi erecto, foliis lanceolatis glabris, racemis erectis, ligulis mediocribus. *Willd. sp. pl.* 3. *p.* 2062.

Icon. *Dill. elth. t.* 307. *f.* 395.

In woods and low fields: New England to Carolina. ♃. Aug.—Oct. *v. v.*

34. S. caule glabro paniculato, foliis lanceolatis serratis glabris margine scabris, ramis apice racemosis, ligulis elongatis.—*Willd. enum.* 891. *livida.*

In sandy fields and woods: New York to Virginia. ♃. Sept. Oct. *v. v.*

35. S. caule erecto hispido scabro, foliis lanceolatis scabris integerrimis, radicalibus serratis, racemis erectis, ligulis mediocribus. *Willd. sp. pl.* 3. *p.* 2063. *hispida.*

In grassy fields and woods: New Jersey to Virginia. ♃. Oct. Nov. *v. v.* Resembles No. 33.

36. S. caule paniculato hirto, foliis lanceolatis utrinque scabris, caulinis serratis, rameis integerrimis, racemis erectis, ligulis elongatis. *Willd. enum.* 891. *hirta.*

In North America. *Willdenow.* ♃. +.

37. S. caule ramoso pubescente, foliis lanceolatis utrinque scabris attenuatis 3-nervibus integerrimis, racemis erectis, ligulis elongatis. *Willd. enum.* 891. *lithospermifolia.*

In sandy barren woods: New Jersey to Carolina. ♃. Aug.—Oct. *v. v.*

38. S. caule erecto lævi, foliis lanceolatis carnosis integerrimis undique lævibus, racemis paniculatis erectis, pedunculis squamosis villosis, ligulis elongatis. *Willd. sp. pl.* 3. *p.* 2063. *lævigata.*

In salt-marshes: Canada to Virginia. ♃. Sept.—Nov. *v. v.*; *v. s. in Herb. Banks.* A tall robust species, resembling the following one very much, and probably nothing more than a variety.

39. S. caule obliquo glabro, foliis lanceolatis subcarnosis integerrimis undique lævibus, racemis paniculatis erectis, pedunculis squamosis glabris, ligulis elongatis. *Willd. sp. pl.* 3. *p.* 2063. *mexicana.*

Icon. *Dodart. act.* 4. *t.* 219.

On the banks of rivers and ditches, near salt-water. ♃. July—Sept. *v. v.*; *v. s. in Herb. Banks. et Lambert.* Tall; flowers large.

40. S. caule erecto subpubescente, foliis lineari-lanceolatis membranaceis basi attenuatis glabris margine scabris, infimis subserratis, racemis erectis, ligulis elongatis. *Willd. sp. pl.* 3. *p.* 2064. *viminea.*

S. integerrima. *Mill. dict.*

On the banks of rivers and ditches: Canada to Virginia.

♃. Aug.—Oct. *v. v.; v. s. in Herb. Banks. et Lambert.* Resembles the preceding, but the leaves are membranaceous, &c.

erecta. 41. S. caule subvilloso, foliis lanceolatis venosis glabris integerrimis subpetiolatis. *Herb. Banks. mss.*
In North America. ♃. *v. s. in Herb. Banks.*

macrophylla. 42. S. foliis inferioribus ovatis acuminatis attenuatis inæqualiter argute serratis glabris, caulinis lanceolatis utrinque attenuatis subsessilibus serratis, racemis axillaribus pedunculatis foliosis, longitudine foliorum, calycibus oblongis turgidis multifloris, ligulis subelongatis.—*Herb. Banks. mss.*
In Canada. ♃. *v. s. in Herb. Banks.* About three feet high; it is intermediate between this genus and *Aster.*

glomerata. 43. S. caule humili simplicissimo, foliis glabris oblongo-lanceolatis serratis, racemo simplici e glomerulis axillaribus: superioribus capitato-congestis, calycibus turgidis multifloris.—*Mich. fl. amer.* 2. *p.* 117.
In the mountains of Carolina. *Michaux.* ♃. +.

flexicaulis. 44. S. caule flexuoso glabro angulato, foliis ovatis acuminatis serratis glabris, racemis erectis axillaribus, ligulis mediocribus.—*Willd. sp. pl.* 3 *p.* 2064.
Icon. *Pluk. alm. t.* 235. *f.* 3. *Rob. ic.* 22.
latifolia. β. S. *Pluk. alm. t.* 235. *f.* 4.
In woods and fields; common: Canada to Carolina. ♃. Aug.—Oct. *v. v.; v. s. in Herb. Banks.* This is the most common species.

axillaris. 45. S. caule glabro tereti stricto, foliis lanceolatis serratis glabris, racemis axillaribus subglobosis erectis, ligulis elongatis.—*Herb. Banks. mss.*
In shady woods: Canada to Virginia. ♃. Aug.—Oct. *v. v.; v. s. in Herb. Banks.*

Virgaurea. 46. S. caule erecto tereti superne ramoso et pubescente, foliis caulinis lanceolatis utrinque attenuatis serratis, inferioribus ellipticis pilosiusculis, racemis erectis, ligulis elongatis. *Willd. sp. pl.* 3. *p.* 2065.
Icon. *Engl. bot.* 301.
In Labrador. *Colmaster.* ♃. Aug.—Oct. *v. s. in Herb. Dickson.*

multiradiata. 47. S. caule villosiusculo, foliis sessilibus lanceolatis glabris ciliatis, inferioribus apice serratis, racemo terminali

erecto, ligulis elongatis numerosis. *Willd. sp. pl.* 3. *p.* 2066.

In Labrador and Hudson's Bay. ♃. Aug.—Oct. *v. s. in Herb. Dickson. et Banks.*

48. S. caule simplici erecto glabro, foliis lanceolatis serratis glabris basi attenuatis elongatis, racemo erecto. *Herb. Banks. mss.* *humilis.*

In North America. ♃. *v. s. in Herb. Banks.*

49. S. caule piloso tereti, foliis lanceolatis subtus pilosiusculis, racemis erectis, ligulis elongatis. *Herb. Banks. mss.* *elata.*

In North America. ♃. *v. s. in Herb. Banks.*

50. S. caule foliisque ovato-oblongis pilosis scabris, caulinis integerrimis, infimis serratis, ramis floriferis paniculatis, racemis compactis, ligulis elongatis. *Willd. sp. pl.* 3. *p.* 2067. *rigida.*

Icon. *Herm. parad.* 243.

In the tract of mountains: New Jersey to Carolina. ♃. Aug.—Oct. *v. v.; v. s. in Herb. Banks. et Lambert.* Flowers large; leaves very rough.

51. S. foliis radicalibus ovato-oblongis petiolatis, caule nudiusculo ramoso fastigiato. *Willd. sp. pl.* 3. *p.* 2067. *noveboracensis.*

In sandy fields and woods. ♃. Sept. Oct. *v. v.* Leaves rough; flowers large.

636. ASTER. *Gen. pl.* 1291.

* *Foliis integerrimis.*

1. A. foliis lineari-lanceolatis 3-nervibus punctatis acutis margine scabris, ramulis corymboso-fastigiatis coarctatis, radio sub-5-floro, calycibus imbricatis disco duplo brevioribus. *Willd. sp. pl.* 3. *p.* 2022. *hyssopifolius.*

In sandy fields and woods: New Jersey to Carolina. ♃. Aug.—Oct. *v. v.; v. s. in Herb. Banks. et Lambert.* From a foot to two high; flowers in a close and flattened corymb; ray white, with a tinge of purple; disk yellow.

2. A. foliis lineari-lanceolatis obsolete trinervibus integerrimis obtusis margine scabris, ramis corymboso-fastigiatis, floribus sessilibus aggregatis, radio 5-floro, calycibus disco brevioribus imbricatis, squamis oblongis obtusis adpressis apice subreflexis.—*Willd. sp. pl.* 3. *p.* 2024. *solidaginoides.*

Conyza linifolia. *Sp. pl.* 1205.

Icon. *Pluk. alm. t. 79. f. 2.*

In dry swamps and on the borders of woods: Pensylvania to Carolina. ♃. Aug.—Oct. *v. v.; v. s. in Herb. Banks. et Lambert.* About two feet high; the scales of the calyx white, with green tips; rays long, white.

tordifolius. 3. A. foliis cuneato-obovatis acutis enervibus utrinque scabris tortuoso-patulis, corymbo composito subfastigiato, calycibus cylindricis imbricatis basi bibracteatis, squamis oblongis acutiusculis adpressis, radio 5-floro.—*Mich. fl. amer. 2. p. 109.*

Conyza bifoliata. *Walt. fl. car. 204.*

In Lower Carolina and Georgia. ♃. Aug.–Oct. *v. s. in Herb. Enslen.* About a foot high; flowers the size of the preceding, rays white.

ledifolius. 4. A. foliis lineari-lanceolatis basi attenuatis enervibus scabriusculis margine revolutis, ramis corymbosis, ramulis filiformibus unifloris nudiusculis, calycibus laxis imbricatis disco duplo brevioribus, foliolis acutissimis, radio sub-20-floro.

A. nemoralis. *Ait. kew. 3. p. 198.*

uniflorus. β. A. caule simplicissimo unifloro.

A. uniflorus. *Mich. fl. amer. 2. p. 110?*

In sphagnous bogs and about mountain-lakes: Canada to New Jersey. ♃. Sept. Oct. *v. v.; v. s. in Herb. Banks. et Lambert.* About a foot high; flowers middle-sized; disk yellowish white; rays lilac or reddish-purple, twice the length of the disk. Sometimes the leaves have a small indenture on each side.

rigidus. 5. A. foliis linearibus mucronatis subcarinatis rigidis margine scabro-ciliatis, caulinis reflexis, rameis patentibus subulatis, caule erecto superne subramoso, ramulis 1-floris corymbosis, calycibus imbricatis disco duplo brevioribus, squamis carinatis obtusiusculis, radiis sub-10-floris reflexis.—*Willd. sp. pl. 3. p. 2032. Mich. fl. amer. 2. p. 118.*

A. nemoralis. *Willd. sp. pl. 3. p. 2021. excl. syn. Aiton.*

A. linariifolius. *Herb. Banks. et Lambert.*

Icon. *Pluk. alm. t. 14. f. 7.*

In sandy fields and pine-barrens: New Jersey to Carolina. ♃. Aug.—Oct. *v. v.; v. s. in Herb. Banks. et Lambert.* About a foot or less high; flowers nearly the size of the preceding, rays a beautiful pale violet-blue, disk yellow.

6. A. foliis crebris linearibus mucronatis enervibus impunctatis carinatis scabris rigidis, rameis recurvatis, caule subdecumbente, ramis fastigiatis 1-floris, calycibus imbricatis longitudine disci.—*Willd. sp. pl.* 3. *p.* 2024. *Mich. fl. amer.* 2. *p.* 110. *linariifolius.*

A. squarrosus. *Herb. Banks. mss.*

In dry, sandy and gravelly fields, and among rocks: Pensylvania to Carolina. ♃. Aug.—Nov. *v. v.; v. s. in Herb. Banks.* Resembles the preceding, but is more branching and of lower growth; the stems are rough, and generally of a purple colour; leaves more crowded, smaller, and more reflex; flowers of the same colour, but smaller, and not raised on almost naked peduncles.

7. A. foliis angusto-linearibus enervibus impunctatis glabris erectis, ramulis terminalibus nudiusculis 1-floris, calycibus laxis discum subæquantibus.—*Herb. Banks. mss.* *graminifolius.*

At Hudson's Bay. ♃. Aug. Sept. *v. s. in Herb. Banks.* Flowers pale-purple; not above six inches high.

8. A. foliis linearibus enervibus punctatis scabris reflexo-patentibus, ramis corymboso-fastigiatis foliosis, calycibus imbricatis brevibus, radiis disco subæqualibus.—*Willd. sp. pl.* 3. *p.* 2024. *linifolius.*

In dry shady woods and exsiccated swamps: Pensylvania to Virginia. ♃. Sept.—Nov. *v. v.* About eighteen inches or two feet high; flowers the size of a large daisy; rays white or faintly purple.

9. A. foliis lineari-lanceolatis albo-villosis, caule ramoso villoso, ramis recurvato-patulis, ramulis subsecundis unifloris, calycibus oblongis laxis imbricatis, squamis lanceolatis mucronatis.—*Willd. sp. pl.* 3. *p.* 2025. *pilosus.*

A. villosus. *Mich. fl. amer.* 2. *p.* 113.

In natural meadows of the Illinois country. ♃. Aug.—Oct. +.

10. A. glaberrimus, parviflorus; caule paniculato, ramis multifloris, foliis lineari-subulatis, calycibus cylindraceis, ligulis radii minutis. *Mich. fl. amer.* 2. *p.* 111. *subulatus.*

In salt-marshes: Pensylvania to Carolina. ♃. Aug.—Nov. +.

11. A. foliis lineari-lanceolatis utrinque attenuatis acuminatis, caule pubescente paniculato erecto, ramis paucifloris, calycibus imbricatis, squamis linearibus acutis adpressis. *Willd. sp. pl.* 3. *p.* 2025. *foliolosus.*

Icon. *Dill. elth. t. 35. f. 39?*
In dry barren fields and on road sides: Canada to Carolina. ♃. Aug.—Oct. *v. v.*; *v. s. in Herb. Lambert.* Flowers small, white; scarcely a distinct species from the following. There is no specimen of it in the Banksian Herbarium.

tenuifolius. 12. A. foliis lineari-lanceolatis utrinque attenuatis margine hispidis, caule glabro ramoso erecto, ramulis unifloris, calycibus imbricatis, squamis oblongis acutis laxis. *Willd. sp. pl. 3. p.* 2026.
Icon. *Pluk. alm.* 78. *f.* 5.
On road sides and barren fields. Aug.—Nov. *v. v.*; *v. s. in Herb. Banks. et Lambert.* Flowers the same as the preceding, which I consider only a variety of the present species.

dumosus. 13. A. foliis linearibus glabris, ramulorum brevissimis, ramis paniculatis, calycibus cylindraceis arcte imbricatis. *Willd. sp. pl. 3. p.* 2026.
violaceus. α. A. radio pallide violaceo, caule pubescente. *Ait. kew.* 3. *p.* 202.
albus. β. A. radio albo, caule glabro. *Ait. l. c.*
Icon. *Herm. parad.* 95. *Pluk. alm. t. 78. f.* 6.
In dry barren fields and sand-barrens: New England to Carolina. ♃. Aug.—Nov. *v. v.*; *v. s. in Herb. Banks. et Lambert.* Flowers small, rays white, disk yellow.

ericoides. 14. A. foliis linearibus glaberrimis, ramulorum subulatis approximatis, caulinis elongatis, calycibus subsquarrosis, foliolis acutis, caule glabro. *Willd. sp. pl.* 3. *p.* 2027.
In barren grounds and on road sides; common: Canada to Carolina. ♃. Aug.—Nov. *v. v.*; *v. s. in Herb. Banks. et Lambert.* Flowers the size and colour of the preceding.

multiflorus. 15. A. foliis linearibus glabriusculis, caule ramosissimo diffuso pubescente, ramulis secundis, calycibus imbricatis, squamis oblongis squarrosis acutis. *Willd. sp. pl. 3. p.* 2027.
Icon. *Dill. elth. t. 36. f.* 40.
In dry fields, and on road sides: Canada to Carolina. ♃. Aug.—Nov. *v. v.*; *v. s. in Herb. Banks. et Lambert.* Probably only a variety of the preceding.

ciliatus. 16. A. foliis ciliatis, caulinis lineari-lanceolatis nervosis, rameis brevissimis lanceolatis 3-nervibus, caule ramoso

pubescente, ramis paniculatis, calycibus imbricatis, squamis spathulatis squarrosis. *Willd. sp. pl.* 3. *p.* 2027.

In North America. *Muhlenberg.* ♃. +. Resembles the preceding one.

17. A. cano-pubescens; foliis linearibus, panicula corymbosa ramosissima foliosa, calycibus imbricatis acutissimis disco longioribus. *canescens.*

On the banks of the Missouri. ♃. Aug.—Nov. *v. s.* Flowers the size of a daisy, rays pale purple.

18. A. foliis remotis linearibus amplexicaulibus erectis glaberrimis margine scabris, pedunculis fere nudis, calycibus squarrosis basi foliis 2. suffultis.—*Willd. sp. pl.* 3. *p.* 2033. *paludosus.*

In marshes and swamps of Lower Carolina. ♃. Aug.—Nov. *v. s. in Herb. Banks. et Lambert.* Flowers large, rays blue, disk yellow.

19. A. glaberrimus; foliis subulato-linearibus subcarnosis subreflexis, caule tenui ramosissimo, ramis ramulisque patulis setaceis 1-floris, squamis pedunculorum divaricatis subulatis, calycibus imbricatis, squamis adpressis acutis.—*Mich. fl. amer.* 2. *p.* 112. *sparsiflorus.*

In salt-marshes: New York to Carolina. ♃. Sept.—Nov. *v. v.* Resembles the preceding one; flowers smaller; rays pale purple or white, disk brownish-yellow.

20. A. humilis; radice repente, caulibus debilibus simplicibus, foliis longe lanceolatis glabriusculis, radicalibus spathulatis, corymbo terminali incompte rarifloro, calycis squamis lineari-oblongis obtusiusculis. *Mich. fl. amer.* 2. *p.* 113. *surculosus.*

In woods of North Carolina, in the county of Burke. *Michaux.* +.

21. A. foliis creberrimis linearibus obtusis reflexis margine hispidis, caule ramoso diffuso glabro, ramulis unifloris, calycibus imbricatis, squamis lineari-spathulatis obtusis.—*Willd. sp. pl.* 3. *p.* 2028. *Mich. fl. amer.* 2. *p.* 112. *coridifolius.*

In dry barren soil in Lower Carolina. ♃. Aug.—Nov. *v. s.* Resembles the following species; flowers bright blue.

22. A. foliis creberrimis ovatis acuminatis reflexis margine hispidis, caule ramoso hirto, ramulis unifloris, caly- *squarrosus.*

cibus imbricatis, squamis lineari-cuneatis acutis squarrosis. *Willd. sp. pl.* 3. *p.* 2028. *Walt. fl. car.* 209.

In pine-barrens of Lower Carolina. ♃. Aug.—Nov. *v. v.*; *v. s. in Herb. Lambert.* Has a striking resemblance to *A. reflexus* from the Cape of Good Hope, and is a very ornamental plant; flowers blue and large.

concolor. 23. A. foliis oblongo-lanceolatis utrinque cano-pubescentibus, caule simplicissimo erecto pubescente, racemo terminali, calycibus imbricatis, squamis lanceolatis sericeis adpressis. *Willd. sp. pl.* 3. *p.* 2029.

In sandy pine and oak woods near the sea-coast: New Jersey to Florida. ♃. Aug.—Nov. *v. v.; v. s. in Herb. Banks. et Lambert.* About a foot high; flowers, both ray and disk, of an agreeable reddish-purple. This is one of the handsomest of the American *Asters*, and highly deserves to be introduced as an ornamental plant.

sericeus. 24. A. foliis oblongo-lanceolatis sessilibus sericeo-tomentosis, caule gracili decumbente laxe ramoso, ramis ramulisve subunifloris, calycibus foliaceis subsquarrosis. —*Willd. sp. pl.* 3. *p.* 2016.

A. argenteus. *Mich. fl. amer.* 2. *p.* 111.

Icon. *Vent. hort. cels. t.* 33.

On the banks of rivers, among rocks, in the Illinois country, and on the Mississippi and Missouri. ♃. Sept. Oct. *v. s. in Herb. Lambert.* A beautiful species; leaves resemble those of *Protea argentea*; flowers large, rays a fine purple, disk pale-yellow.

reticulatus. 25. A. undique cano-tomentosus; foliis lanceolato-oblongis utrinque acutis sessilibus margine revolutis, subtus reticulato-venosis triplinervibus, caule superne ramoso, ramis apice corymboso-racemifloris, pedunculis subaphyllis, calycibus imbricatis laxiusculis, squamis acutissimis.

In dry swamps of Carolina and Georgia. ♃. Aug.—Oct. *v. v.* About three feet high; flowers middle-sized, rays and florets white.

cornifolius. 26. A. glaber; foliis oblongo-ovatis acuminatis brevi-petiolatis margine scabris, caule glabro, panicula pauciflora, ramis bifloris, calycibus subimbricatis.—*Willd. sp. pl.* 3. *p.* 2039.

In Pensylvania. *Muhlenberg.* ♃. +.

humilis. 27. A. foliis subrhomboideis ovali-lanceolatis utrinque acu-

minatis subpetiolatis glabris margine hispidis, corymbo divergenti-dichotomo nudiusculo paucifloro, calycibus laxis imbricatis, radiis 8-floris.—*Willd. sp. pl.* 3. *p.* 2038.

A. infirmus. *Mich. fl. amer.* 2. *p.* 109.

A. divaricatus. *Willd. sp. pl.* 3. *p.* 2044. *secundum specimen Gronov. et Banks.*

Icon. *Willd. hort. berol.* 67. *Pluk. alm. t.* 79. *f.* 1.

In shady and rocky places: Canada to Carolina ♃. Aug.—Oct. *v. v.; v. s. in Herb. Banks. et Gronov.* Not above a foot high; flowers clear white, and large in proportion to the plant.

28. A. foliis lanceolatis basi attenuatis acuminatis margine scabris, caule simplici apice corymboso-fastigiato, calycibus laxis imbricatis, squamis lanceolatis obtusis.—*Lam. encycl.* 1. *p.* 305. *amygdalinus.*

A. umbellatus. *Ait. kew.* 3. *p.* 199.

On the banks of rivers and in swamps: Canada to Carolina. ♃. Sept.—Nov. *v. v.; v. s. in Herb. Banks. et Lambert.* Rays large, white.

29. A. foliis lineari-lanceolatis subintegerrimis glabris, caule glabro apice paniculato, calycibus laxis imbricatis, squamis acutis apice patulis.—*Willd. sp. pl.* 3. *p.* 2030. *salicifolius.*

A. præaltus. *Lam. encycl. suppl.* 1. *p.* 493.

Icon. *Rob. ic.* 307.

In low grounds, on the side of ditches: New York to Virginia. ♃. Aug.—Oct. *v. v.; v. s. in Herb. Banks. et Lambert.* From four to six feet high; flowers middle-sized, reddish-blue.

30. A. foliis lanceolatis subamplexicaulibus apice attenuatis margine scabris, caule a basi ramoso erecto hispido, ramulis pilosis, calycinis squamis laxis linearibus acutis æqualibus.—*Willd. sp. pl.* 3. *p.* 2030. *æstivus.*

In dry swamps and copses: New York and Pensylvania. ♃. July—Sept. *v. v.; v. s. in Herb. Banks. et Lambert.* Not above two feet high; flowers resembling the preceding, rays blue.

31. A. foliis lineari-lanceolatis pilosis amplexicaulibus basi auriculatis, caule simpliciusculo piloso stricto, floribus subsessilibus terminalibus confertis, calycinis squamis laxis coloratis lanceolatis disco longioribus.—*Willd. sp. pl.* 3. *p.* 2032. *novæ angliæ.*

Icon. *Herm. parad.* 98.

On the banks of rivers and borders of meadows: Canada to Virginia. ♃. Sept.—Nov. *v. v.; v. s in Herb. Banks. et Lambert.* A highly ornamental species; in rich moist soil it will grow to the height of ten feet: flowers large, rays blue or purple, and almost every shade between red and blue.

cyaneus. 32. A. foliis lineari-lanceolatis amplexicaulibus lævigatis, caule virgato-paniculato glaberrimo, ramis racemifloris, calycinis squamis laxis lanceolatis discum æquantibus, interioribus apice coloratis.—*Hoffm. phytogr.* 1. *p.* 71. *t.* B. *f.* 1.

A. rubricaulis. *Lam. encycl.* 1. *p.* 305.

A. spurius. *Willd. sp. pl.* 3. *p.* 2032.

A. Novæ angliæ. *β. Ait. kew.* 3. *p.* 201.

In old meadows and dry swamps: New England to Carolina. ♃. Sept.—Nov. *v. v.; v. s. in Herb. Lambert.* From three to four feet high; flowers large, in great abundance, of various tints of blue and purple; the handsomest of the genus.

carolinianus. 33. A. foliis oblongis utrinque attenuatis sessilibus, caule subscandente ramosissimo, ramulis pubescentibus summitate paucifloris, calycinis squamis lanceolatis squarrosis.—*Willd. sp. pl.* 3. *p.* 2017. *Walt fl. car.* 208.

In shady moist hedges and swamps: Carolina and Georgia. ♃. ♄. Aug. Sept. *v. v.* From six to fifteen feet high; flowers large; rays purple or flesh-coloured, disk yellowish-purple.

grandiflorus. 34. A. foliis linearibus rigidis acutiusculis subamplexicaulibus, rameis reflexis, margine ciliato-hispidis, caule ramoso hirto, ramis unifloris, calycinis squamis squarrosis lineari-lanceolatis. *Willd. sp. pl.* 3. *p.* 2033.

Icon. *Mill. ic.* 282. *Dill. elth* *t.* 36. *f.* 41. *Mart. cent.* 19. *Hoffm. phyt.* 1. *p.* 65. *t.* A. *f.* 1.

In dry sandy woods: Virginia to Carolina. ♃. Sept.—Nov. *v. v.; v. s. in Herb. Banks.* About two feet high; leaves small; flowers large, rays purple and blue, disk yellow.

phlogifolius. 35. A. foliis lanceolatis cordatis amplexicaulibus subtus pubescentibus, margine scabris, caule simplicissimo pubescente, panicula terminali laxa rariflora, calycinis squamis laxis imbricatis lanceolatis.—*Willd. sp. pl.* 3. *p.* 2034.

A. amplexicaulis. *Mich. fl. amer.* 2. *p.* 114.

In shady moist places: New Jersey to Virginia. ♃.

Aug.—Nov. *v. v.* From eighteen inches to a foot high; flowers middle-sized, rays violet.

36. A. foliis oblongo-lanceolatis ciliatis cordatis amplexicaulibus utrinque scabris pilosis, caule ramoso hirto, ramis patentibus elongatis paucifloris microphyllis, calycinis squamis imbricatis lanceolatis patulis.—*Willd. sp. pl.* 3. *p.* 2034. *patens.*

A. diversifolius. *Mich. fl. amer.* 2. *p.* 113?

In hedges, old drying up swamps, and sometimes among rocks: New England to Carolina. ♃. Sept.—Nov. *v. v.*; *v. s. in Herb. Banks. et Lambert.* From a foot to two high; flowers middle-sized, rays purple or blue, disk yellow.

** *Foliis cordatis ovatisque, serratis.*

37. A. foliis oblongis cordatis amplexicaulibus integerrimis pilosis subundulatis, inferioribus ovatis cordatis subserratis petiolatis, petiolis alatis, caule paniculato hispido, ramulis secundis foliosis unifloris. *Willd. sp. pl.* 3. *p.* 2035. *undulatus.*

Icon. *Hoffm. phyt.* 1. *t.* C. *f.* 1. *Herm. parad.* 96.

In dry woods and old fields: New England to Carolina. ♃. Sept.—Nov. *v. v*; *v. s. in Herb. Banks. et Lambert.* Flowers smaller than the preceding; rays pale violet.

38. A. foliis oblongo-lanceolatis acuminatis sessilibus medio serratis, radicalibus oblongis cordato-sagittatis serratis petiolatis, caule ramoso glabro, squamis calycinis laxis imbricatis lanceolatis.—*Willd. sp. pl.* 3. *p.* 2035. *sagittifolius.*

In North America. *Wedemeyer.* ♃. +. Flowers blue, the size of the following species.

39. A. foliis ovato-lanceolatis subserratis petiolatis glabris, radicalibus ovato-cordatis serratis scabris petiolatis, petiolis nudis, caule ramosissimo glabro, ramulis pilosis, calycibus laxis subimbricatis. *Willd. sp. pl.* 3. *p.* 2035. *paniculatus.*

Icon. *Corn. canad.* 65. *Moris. hist.* 3. *s.* 7. *t.* 22. *f.* 34.

In meadows, hedges, and on the borders of woods: Canada to Virginia. ♃. Aug.—Nov. *v. v.*; *v. s. in Herb. Banks. et Lambert.* From two to four feet high; flowers rather small, but in great abundance, changing from white to blue in the ray, and from yellow to purple or brown in the disk, which gives the whole plant a beautiful variegated appearance.

cordifolius. 40. A. foliis cordatis subtus pilosis argute serratis petiolatis, petiolis alatis, caule paniculato glabriusculo, panicula divaricata, calycibus laxis subimbricatis.—*Willd. sp. pl.* 3. *p.* 2036.

In shady woods, throughout the mountains: Canada to Florida. ♃. Sept.—Nov. *v. v.; v. s. in Herb. Banks.* Flowers small, white, or pale purple.

corymbosus. 41. A. foliis ovatis argute serratis acuminatis glabriusculis, inferioribus cordatis petiolatis, petiolis nudis, caule glabro superne corymboso-fastigiato, ramis pilosis, calycibus oblongis imbricatis, squamis obtusis arcte adpressis.—*Willd. sp. pl.* 3. *p.* 2036.

In shady woods: Canada to Florida. ♃. Aug.—Nov. *v. v.; v. s. in Herb. Banks. et Lambert.* A foot or two high; flowers white, larger than the preceding.

macrophyllus. 42. A. foliis ovatis petiolatis serratis scabris, summis ovato-cordatis sessilibus, inferioribus cordatis petiolatis, petiolis submarginatis, caule ramoso diffuso, calycibus cylindricis arcte imbricatis, squamis oblongis acutis. —*Willd. sp. pl.* 3. *p.* 2037.

In shady woods about rocks; Canada to Virginia. ♃. Sept.—Nov. *v. v.; v. s. in Herb. Banks. et Lambert.* A foot or two high; flowers above the middle size, rays white, and sometimes blue.

heterophyllus. 43. A. foliis glabris, caulinis ovatis subcordatis acuminatis profunde serratis apice integerrimis, ramorum ovato-oblongis subserratis, ramulorum lanceolatis minutissime reflexo-patentibus, caule paniculato glabro, calycibus arcte imbricatis. *Willd. enum.* 882.

In North America. *Willdenow.* ♃. +.

*** *Foliis lanceolatis ovatisque, inferioribus serratis.*

amplexicaulis. 44. A. foliis ovato-oblongis acutis amplexicaulibus cordatis serratis glabris, caule paniculato glabro, ramulis 1–2-floris, calycinis squamis lanceolatis arcte imbricatis.—*Willd. sp. pl.* 3. *p.* 2046.

A. pensylvanicus. *Lam. encycl. suppl.* 1. *p.* 498.

On the borders of woods, in sandy soil: New Jersey to Virginia. ♃. Sept.—Nov. *v. v.* Flowers middle-sized, blue.

prenanthoides. 45. A. foliis amplexicaulibus spathulato-lanceolatis acuminanatis medio serratis basi cordatis, ramulis pilosis, calycinis squamis lanceolatis squarrosis.—*Willd. sp. pl.* 3. *p.* 2046.

In Pensylvania. *Muhlenberg.* ♃. +. Flowers blue.

46. A. foliis amplexicaulibus lanceolatis, inferioribus subserratis glabris, ramulorum linearibus squarrosis, calycibus squarrosis disco brevioribus, squamis lineari-cuneatis.—*Willd. enum.* 884. *adulterinus.*

In North America. *Willdenow.* ♃. +. Rays violet; disk yellowish-brown.

47. A. foliis subamplexicaulibus lato-lanceolatis subserratis lævibus, caule ramosissimo glabro, ramulis multifloris, calycinis squamis lanceolatis laxis discum subæquantibus.—*Willd. sp. pl.* 3. *p.* 2046. *lævigatus.*

In swamps and wet woods: Pensylvania to Virginia. ♃. Sept.—Nov. *v. v.*; *v. s. in Herb. Lambert.* Flowers large, pale rose- or flesh-cololoured, with a tinge of purple.

48. A. foliis subamplexicaulibus lato-lanceolatis subserratis glabris, radicalibus medio serratis, caule ramosissimo glabro, calycinis squamis lanceolatis laxis disco brevioribus. *Willd. sp. pl.* 3. *p.* 2045. *versicolor.*

In old fields and on the borders of woods: New Jersey to Carolina. ♃. Aug.—Oct *v. v.*; *v. s in Herb. Lambert.* A beautiful species; flowers large and in great abundance, disk yellow, rays white, changing to a deep violet; so that at the same time there are flowers of different colours on the same plant; which has a very pleasing effect.

49. A. foliis subamplexicaulibus, superioribus lanceolatis acuminatis integerrimis, inferioribus lanceolatis basi angustatis serratis, ramulis virgatis, calycibus disco brevioribus laxis, caule glabro. *Willd. sp. pl.* 3. *p.* 2045. *mutabilis.*

Icon. *Pluk. alm. t.* 326 *f.* 1. *Herm. lugdb.* 67.

In old fields and woods: Pensylvania to Virginia. ♃. Aug.—Oct. *v. v.*; *v. s. in Herb. Lambert.* Flowers middle-sized; rays deep purple, disk yellow, changing to purple.

50. A. foliis subamplexicaulibus remotis oblongis integerrimis lucidis, radicalibus subserratis, ramis simplicibus unifloris, calycibus imbricatis, foliolis subcuneiformibus acutis apice incrassatis, caule glabro angulato.—*Willd. sp. pl.* 3. *p.* 2044. *lævis.*

In woods and on the sides of ponds and ditches: New York to Virginia. ♃. Sept.—Nov. *v. v.* Rays blueish-purple.

concinnus. 51. A. foliis lanceolatis subamplexicaulibus inferioribus subserratis glabris, caule simplici apice paniculato, calycibus arcte imbricatis. *Willd. enum.* 884.

In fields and woods: New York and Pensylvania. ♃. Sept.—Nov. *v. v.; v. s. in Herb. Lambert.* Leaves resembling those of *Phlox maculata*; rays blueish-purple.

puniceus. 52. A. foliis amplexicaulibus lanceolatis serratis scabriusculis, ramis paniculatis, calycibus laxis discum superantibus, foliolis lineari-lanceolatis subæqualibus, caule hispido. *Willd. sp. pl.* 3. *p.* 2040.

Icon. *Herm. lugdb.* 651.

purpureus. α. A. septempedalis, caulibus saturate purpureis. *Ait. kew.* 3. *p.* 208.

A. amœnus. *Lam. encycl.* 1. *p.* 306.

rufescens. β. A. octopedalis, caulibus e viridi-rufescentibus. *Ait. l. c.*

A. hispidus. *Lam. encycl.* 1. *p.* 307.

On the banks of rivers and ditches, particularly near salt-water: Canada to Carolina, and in the range of mountains, about lakes. ♃. Sept.—Nov. *v. v.; v. s. in Herb. Banks. et Lambert.* From three to ten feet high; flowers large, purple or blue.

floribundus. 53. A. foliis subamplexicaulibus lanceolatis, inferioribus serratis, caule glabro, ramis corymbosis, ramulis multifloris pilosis, calycinis squamis laxis lanceolatis imbricatis. *Willd. sp. pl.* 3. *p.* 2048.

In North America. *Willdenow.* ♃. +. Resembles the following species.

novi belgii. 54. A. foliis subamplexicaulibus lanceolatis glabris margine scabris, inferioribus subserratis, ramis subdivisis, calycibus laxe-imbricatis, foliolis lineari-lanceolatis, caule tereti glabro. *Willd. sp. pl.* 3. *p.* 2048.

Icon. *Herm. lugdb.* 69.

In hedges and old fields: New England to Virginia. ♃. Aug.—Oct. *v. v.; v. s. in Herb. Lambert.* Flowers middle-sized, pale purple.

bellidiflorus 55. A. foliis amplexicaulibus angusto-lanceolatis supra scabris, inferioribus subserratis, caule ramosissimo, calycis squamis lanceolatis patentibus. *Willd. enum.* 886.

In North America. *Willdenow.* ♃. +. Ray pale red, disk yellow, changing to brown.

spectabilis. 56. A. foliis lanceolatis scabriusculis subamplexicaulibus, inferioribus medio serratis, ramis corymbosis, foliolis

calycinis laxis foliaceis subcuneiformibus acutiusculis squarrosis. *Willd. sp. pl.* 3. *p.* 2048.

In low meadows, on the sides of woods: Pensylvania to Virginia. ♃. Aug.—Nov. *v. v.; v. s. in Herb. Lambert.* About two feet high; flowers large, blue.

57. A. foliis oblongo-lanceolatis acuminatis sessilibus glabris margine scabris, inferioribus serratis, ramis corymbosis glabris, ramulis unifloris, calycinis squamis lanceolatis acuminatis patentibus.—*Willd. sp. pl.* 3. *p.* 2049. *serotinus.*

In low grounds and on the banks of ditches: New York to Virginia. ♃. Sept.—Nov. *v. v.; v. s. in Herb. Lambert.* About three feet high; flowers large, blue.

58. A. foliis sessilibus serratis glabris spathulato-lanceolatis basi attenuatis et margine utroque latere deflexis, ramis divaricatis, calycibus laxis, foliolis lanceolato-linearibus subæqualibus glabris.—*Willd. sp. pl.* 3. *p.* 2049. *tardiflorus.*

In low overflowed grounds: New York to Virginia; rare. ♃. Oct. Nov. *v. v.* Flowers below the middle size; rays pale blue.

59. A. foliis subamplexicaulibus oblongo-lanceolatis acuminatis serratis glabris, caule pyramidato-ramoso, ramis axillaribus racemifloris folio vix longioribus, pedunculis tomentosis nudis, calycibus laxis subæqualibus disco brevioribus.—*Herb. Banks. mss.* *blandus.*

In Canada. ♃. Oct. Nov. *v. s. in Herb. Banks.* Flowers above the middle size; rays pale purple.

60. A. foliis lato-lanceolatis inferne attenuatis integris superne inæqualiter serratis longissime acuminatis, caule simplici flexuoso anguloso, panicula corymbosa divaricato-dichotoma, calycinis foliolis laxis linearibus disco brevioribus.—*Mich. fl. amer.* 2. *p.* 109. *acuminatus.*

α. A. caule altiore, panicula multiflora foliosa. elatior.

A. latifolius. *Herb. Banks. et Lambert.*

β. A. caule pumilo, corymbo paucifloro nudo vix foliis altiore. pumilus.

In Canada and on the Allegany mountains, in rocky shady situations. β. On the highest mountains of Virginia and Carolina. ♃. Aug.—Oct. *v. v.* About a foot or more high; flowers middle-sized; rays white.

61. A. foliis oblongis 3-nervibus basi angustatis acutis, superioribus sessilibus subintegerrimis, inferioribus petiolatis serratis, caule simplici apice corymboso, calyci- *conyzoides.*

bus cylindricis squarrosis, radiis 5. brevissimis.—*Willd. sp. pl.* 3. *p.* 2043.

A. marylandicus. *Mich. fl. amer.* 2. *p.* 108.

Conyza asteroides. *Sp. pl.* 1206.

In fields and woods: Pensylvania to Carolina. ♃. Aug.—Oct. *v. v.* About a foot high; flowers small; rays only five, white.

peregrinus. 62. A. foliis sessilibus remotis oblongo-lanceolatis sensim acutis glabris, caule erecto subsimplici glabro superne hirto summitate 1—3-floro, calycinis squamis lanceolato-linearibus villosis acutissimis laxis longitudine disci, radiis numerosis.—*Herb. Banks. mss.*

On the north-west coast: Unalashka. *D. Nelson.* ♃. *v. s. in Herb. Banks.* Flowers large, violet.

Radula. 63. A. foliis lanceolatis serratis acuminatis rugosis scaberrimis, caule erecto angulato simplici, corymbo terminali, calycibus imbricatis, foliolis lanceolatis obtusiusculis subsquarrosis.—*Willd. sp. pl.* 3. *p.* 2044.

In Nova Scotia and on the high mountains of New York and Pensylvania. ♃. Sept—Nov. *v. v.; v. s. in Herb. Banks. et Lambert.* Flowers middle size; rays short, white.

strictus. 64. A. foliis sessilibus angusto-lanceolatis serratis scabris, caule superne uno aut paucifloro, calycinis squamis imbricatis adpressis oblongis acutis discum subæquantibus.—*Herb. Banks. mss.*

A. biflorus. *Mich. fl. amer.* 2. *p.* 114?

In Labrador, at Hudson's Bay, and on high mountains in Pensylvania. ♃. Sept. Oct. *v. v.; v. s. in Herb. Banks.* From four inches to a span high; flowers middle-sized; rays pale violet, disk brownish-yellow.

Tradescanti. 65. A. foliis lanceolatis serratis sessilibus glabris, ramis virgatis, calycibus imbricatis, caule tereti glabro. *Willd. sp. pl.* 3. *p.* 2047.

A. vimineus. *Lam. encycl.* 1. *p.* 306.

In hedges and dry swamps; frequent: Canada to Virginia. ♃. Aug.—Oct. *v. v.; v. s. in Herb. Lambert.* Three or four feet high; flowers very small; rays white, and sometimes pale purple.

recurvatus. 66. A. foliis sessilibus angusto-lanceolatis basi attenuatis, inferioribus medio serratis, caule ramoso glabro recurvato, calycinis squamis laxis imbricatis lineari-lanceolatis subæqualibus.—*Willd. sp. pl.* 3. *p.* 2047.

A. salicifolius. *Lam. encycl.* 1. *p.* 306.

In fields and on road sides: New England to Pensylvania. ♃. Sept.—Nov. *v. v.* Resembles the preceding; flowers pale blue.

67. A. foliis lineari-lanceolatis acuminatis margine scabris, infimis subserratis, caule paniculato, ramulis unifloris, calycibus laxe imbricatis, foliolis lanceolatis. *Willd. enum.* 886. *eminens.*

In North America. *Willdenow.* ♃. Sept.—Nov. *v. s. in Herb. Lambert.* Flowers of middle size; rays pale lilac, disk yellow, changing to red.

68. A. foliis lineari-lanceolatis acuminatis margine scabris, infimis subserratis, caulinis subreflexis, rameis patentissimis, caule laxo apice paniculato, calycibus imbricatis, foliolis lanceolatis acutis apice reflexis. *Willd. enum.* 886. *laxus.*

In low sandy fields: New Jersey to Virginia. ♃. Sept. —Nov. *v. v.* Rays white; disk yellow.

69. A. foliis lanceolatis acuminatis margine scabris, caulinis apice serratis, rameis integerrimis, caule glaberrimo apice paniculato, calycibus laxe imbricatis, foliolis lineari-subulatis. *Willd. enum.* 887. *simplex.*

In North America. *Willdenow.* ♃. +. Rays white, disk yellow.

70. A. foliis linearibus integerrimis, radicalibus oblongis subserratis, caule ramosissimo pubescente, calycibus laxe imbricatis. *Willd. enum.* 888. *polyphyllus.*

In North America. *Willdenow.* ♃. +. Rays white, disk yellow, changing to red or brown.

71. A. foliis lanceolato-linearibus sessilibus glabris, infimis subserratis, ramulorum lanceolatis, caule paniculato glabro, ramis virgatis, calycibus imbricatis. *Willd. sp. pl.* 3. *p.* 2050. *junceus.*

In swamps and ditches: Pensylvania to Virginia. ♃. Aug.—Oct. *v. v.* From four to six feet high; flowers flesh-coloured.

72. A. foliis lineari-lanceolatis sessilibus integerrimis glabris, infimis lanceolatis subserratis, caule ramoso diffuso glabriusculo, calycibus imbricatis, foliolis lanceolatis subpatulis.—*Willd. sp. pl.* 3. *p.* 2050. *lanceolatus.*

In North America. *Willdenow.* ♃. Aug.—Nov. +. Resembles the preceding; flowers smaller, rays white, changing to a pale violet.

73. A. foliis linearibus acuminatis integerrimis, inferioribus *dracunculoides.*

lineari-lanceolatis subserratis, ramis corymbosis, calycibus imbricatis, caule glabriusculo. *Willd. sp. pl.* 3. *p.* 2050.

A. artemisiflorus. *Lam. encycl. suppl.* 1. *p.* 500.

In low grounds and on sides of ditches: New Jersey to Carolina. ♃. Sept.—Nov. *v. v.*; *v. s. in Herb. Lambert.* About four feet or less high; flowers about half the size of No. 71, rays white.

fragilis. 74. A. foliis linearibus acuminatis integerrimis, radicalibus oblongis serratis, ramis corymboso-paniculatis, calycibus imbricatis squamis adpressis, caule glabriusculo. *Willd. sp. pl.* 3. *p.* 2051.

In North America. *Muhlenberg.* ♃. *v. s. in Herb. Lambert.* About two feet high; flowers white, smaller than the preceding. This and the three preceding species are very nearly allied to one another, so much so that it is difficult to find sufficient cararacters to distinguish them, though their general appearance and the size of the flowers separate them at first sight.

miser. 75. A. foliis sessilibus lanceolatis serratis glabris, calycibus imbricatis, foliolis acutis, disco radii æquali, caule villosiusculo. *Willd. sp. pl.* 3. *p.* 2051.

In old barren fields: Canada and New England. ♃. Aug.—Oct. *v. v.*; *v. s. in Herb. Lambert.*

divergens. 76. A. foliis elliptico-lanceolatis serratis glabris, caulinis lineari-lanceolatis elongatis, ramis patentibus, calycibus imbricatis, caule pubescente. *Willd. sp. pl.* 3. *p.* 2052.

In old fields and barren woods: New York to Carolina. ♃. Sept.—Nov. *v. v.*; *v. s. in Herb. Lambert.* From three to five feet high; flowers small; rays white, disk reddish-brown.

diffusus. 77. A. foliis elliptico-lanceolatis serratis glabris proportionatis, ramis patentibus, calycibus imbricatis, caule pubescente. *Willd. sp. pl.* 3. *p.* 2052.

In fields and hedges; frequent: Canada to Carolina. ♃. Sept.—Nov. *v. v.*; *v. s. in Herb. Lambert.* Flowers white, small.

pendulus. 78. A. foliis elliptico-lanceolatis serratis glabris, ramulorum remotiusculis, ramis divaricatissimis pendulis, caule pubescente. *Willd. sp. pl.* 3. *p.* 2052.

In old fields; common. ♃. Oct. Nov. *v. v.*; *v. s. in Herb. Lambert.* Resembles the preceding; but the

stem forms a loose panicle with pendulous branches; the disk turns brown.

637. DONIA. *Ait. kew. ed.* 2. *t.* 4. *p.* 82.

1. D. herbacea; foliis oblongis amplexicaulibus serratis, calycinis squamis apice filiformibus revoluto-squarrosis. *squarrosa.*

In open prairies, on the banks of the Missouri. *M. Lewis.* ♃. Aug. Sept. *v. s. in Herb. Lewis.*; *v. v. cult.* Flowers yellow, resembling those of *Inula.* The whole plant is viscous, and has a strong resiniferous or balsamic scent.

Caulis erectus, teres, albidus, corymboso-ramosus. *Rami* alterni, angulati, apice uni- aut triflori. *Folià* alterna, basi dilatata, amplexicaulia, oblonga, acuta aut obtusa, serrata, glabra, utrinque squamulis punctiformibus resiniferis obsita. *Flores* 1—3. in summitate ramulorum, corymbosi, flavi, ante explicationem copiose resiniferi. *Calyx* hemisphæricus, arcte imbricatus: *Squamis* apice filiformibus, revolutis et quasi caput Medusæ referentibus. *Flosculi* radii lineari-lanceolatæ, acutæ. *Semina* oblongo-obovata. *Pappus:* aristis 2—4. deciduis. *Receptaculum* planum, nudum, favulosum.

It approaches near to *Aster glutinosus Cav. ic.* 2. *p.* 53. *t.* 168. which is the *Donia glutinosa Ait. kew. ed.* 2. *t.* 4. *p.* 82. which I distinguish by the following diagnosis: *Donia glutinosa:* frutescens; foliis oblongo-obcuneatis sessilibus serratis, calycinis squamis linearibus erectis.

638. BŒBERA. *Willd. sp. pl.* 3. *p.* 2125.

1. B. caule paniculato, foliis oppositis subbipinnatis glabris acutis.—*Willd. sp. pl.* 3. *p.* 2125. *chrysanthemoides.*

Tagetes papposa. *Mich. fl. amer.* 2. *p.* 132.

Tagetes pumila. *Hort. pisan.*

Dyssodia glandulosa. *Cav. demonstr. bot. p.* 202.

On the overflowed banks of the Missouri and Mississippi. ☉. Aug. Sept. *v. s.* Flowers small, golden-yellow.

639. ACTINELLA. *Pers. syn.* 2 *p.* 469.

Actinea. *Juss. in annal. mus.* 2. *p.* 425.

lanata. 1. A. undique lanato-tomentosa; foliis linearibus superne pinnatifidis, pedunculis elongatis unifloris, radiis bidentatis, seminibus glabris 5-gonis.

On the high lands of the Kooskoosky. *M. Lewis.* ♃. June, July. *v. s. in Herb. Lewis.* Flowers orange-yellow. It resembles in habit Jussieu's *Actinea*, in *Annal. du mus.* 2. *t.* 61. *f.* 2.

Planta omnibus partibus tomento albo lanato tecta. *Caulis* ramosus, teres. *Rami* alterni, superne subdivisi. *Ramuli* uniflori. *Folia* caulina alterna, linearia, superne dilatato-pinnatifida, dentata; ramea linearia, integra. *Pedunculi* terminales, elongati, superne incrassati. *Flores* aurantiaci, magnitudine *Tagetidis erectæ.* *Calyx* oblongus, simplex, polyphyllus: foliola 12—14. lineari-lanceolata, acuta. *Corollulæ* radii 12—14. oblongæ, bidentatæ, nervosæ: disci tubulosæ, concolores. *Pappus*: paleis 4—6. scariosis, albidis, acutis, interdum laceris. *Semina* prismatico-oblonga, 5-gona.

640. HELENIUM. *Gen. pl.* 1299.

autumnale. 1. H. foliis lanceolatis serratis subdecurrentibus, caule superne corymboso, corollulis disci 5-fidis: radii planis reflexis.—*Willd. sp. pl.* 3. *p.* 2120.

Icon. *Pluk. amalth. t.* 372. *f.* 4. *Corn. canad.* 63.

pubescens. β. H. foliis pubescentibus. *Willd. sp. pl.* 3. *p.* 2121.

On the banks of rivers, ponds, and ditches: Canada to Carolina. ♃. Oct. Nov. *v. v.* About two feet high; flowers bright yellow.

canaliculatum. 2. H. foliis lanceolatis serratis subdecurrentibus, caulibus simplicibus, corollulis disci 5-fidis: radii canaliculatis. *Lamarck in journ. hist. nat.* 213. *t.* 35.

quadridentatum. 3. H. foliis lato-decurrentibus, inferioribus subpinnatifidis, superioribus lanceolatis integerrimis glabris, corollulis disci 4-dentatis.—*Willd. sp. pl.* 3. *p.* 2121.

Rudbeckia alata. *Jacq. ic. rar. t.* 593.

Icon. *Labillard. in act. soc. hist. nat. par.* 1. *t.* 4.

On the banks of the Mississippi. ♃. July, Aug. *v. v.* From three to four feet high; flowers smaller than the preceding.

641. BOLTONIA. *Gen. pl.* 1309.

1. B. foliis integerrimis, floribus longe pedunculatis, seminibus ovalibus glabris submuticis.—*Willd. sp. pl.* 3. *p.* 2162. *asteroides.*

Matricaria asteroides. *Linn. mant.* 116.

Chrysanthemum carolinianum. *Walt. fl. car.* 204.

Icon. *L'Herit. sert. angl. t.* 25. *ined.*

On the banks of ponds and swamps: Carolina and Illinois. ♃. Aug.—Oct. *v. s.* Rays flesh-coloured; disk yellow.

2. B. foliis inferioribus serratis, floribus breviter pedunculatis, seminibus obcordatis conspicue alatis pubescentibus, aristis pappi duabus ipsorum longitudine.—*Willd. sp. pl.* 3. *p.* 2163. *glastifolia.*

Icon. *L'Herit. sert. angl. t.* 26. *ined.*

On the banks of rivers and ponds. Pensylvania to Virginia. ♃. July, Aug. *v. v.* Resembles the preceding very much.

642. SIEGESBECKIA. *Gen. pl.* 1320.

1. S. foliis sessilibus ovatis dentatis, floribus disci tridentatis triandris. *Willd. sp. pl.* 3. *p.* 2220. *flosculosa.*

Icon. *L'Herit. stirp. t.* 19.

On the north-west coast. *M. Lewis.* ☉. July, Aug *v. s. in Herb. Lewis.* Flowers yellow.

643. PHÆTHUSA. *Gen. pl.* 1319.

1. P. foliis oppositis ovatis acuminatis serratis triplinervibus, corymbo terminali brachiato.—*Willd. sp. pl.* 3. *p.* 2221. *americana.*

Icon. *Pluk. mant. t.* 342.

In North America. ♃. +. I strongly suspect this to be the same with *Verbesina Siegesbeckia,* although Michaux declares it to be different.

644. ECLIPTA. *Gen. pl.* 1316.

1. E. erecta, dichotoma, strigosa; foliis lanceolatis basi attenuatis rariter serratis, pedunculis geminis elongatis, calycinis foliolis ovatis acuminatis.—*Willd. sp. pl.* 3. *p.* 2217. *erecta.*

Verbesina alba. *Sp. pl.* 1272.

Cotula alba. *Syst. nat.* 2. *p.* 564.
Icon. *Dill. elth. t.* 113. *f.* 137. *Pluk. alm. t.* 109. *f.* 1. *Moris. hist.* 3. *s.* 6. *t.* 13. *f.* 16.
In dry gravelly soil: Virginia to Florida. ⊙. June, July. *v. v.* Flowers small, white.

procumbens. 2. E. procumbente-assurgens; foliis longo-lanceolatis inferne angustatis rariter subserratis, pedunculis longiusculis, calycinis foliolis acute-lanceolatis, flosculis 4-fidis.—*Mich. fl. amer.* 2. *p.* 129.
In Lower Carolina. ⊙. July, Aug. *v. s.* Flowers small, white.

brachypoda. 3. E. divaricato-prostrata; foliis lanceolatis subserratis, pedunculis solitariis geminisque brevibus, calycinis foliolis ovali-lanceolatis, flosculis 5-fidis.—*Mich. fl. amer.* 2. *p.* 130.
Amellus carolinianus. *Walt. fl. car.* 213.
In low sandy fields: Carolina. ⊙. July, Aug. *v. v.*

645. ANTHEMIS. *Gen. pl.* 1312.

arvensis. 1. A. receptaculis conicis, paleis lanceolatis, seminibus coronato-marginatis, foliis bipinnatis laciniis lanceolato-linearibus. *Willd. sp. pl.* 3. *p.* 2180.
Icon. *Engl. bot.* 602.
In waste grounds and on road sides: Pensylvania to Virginia. ♂. ⊙. Aug. Sept. *v. v.* Rays white, disk yellow.

repens. 2. A. caule repente, foliis ovali-lanceolatis subintegris, pedunculis terminalibus unifloris longissimis, calycibus subæqualibus 10—12 phyllis.—*Walt. fl. car.* 211.
Spilanthus repens. *Mich. fl. amer.* 2. *p.* 131.
On overflowed banks of rivers: South Carolina. ⊙. July—Sept. *v. v.* Flowers yellow.

646. ACHILLEA. *Gen. pl.* 1313.

Ptarmica. 1. A. foliis linearibus acuminatis æqualiter argute serratis glabris. *Willd. sp. pl.* 3. *p.* 2191.
Icon. *Fl. dan.* 643. *Engl. bot.* 757.
In open dry swamps: Canada and New York. ♃. Aug. Sept. *v. v.* Flowers white.

asplenifolia. 2. A. foliis radicalibus bipinnatifidis, caulinis incisis, laciniis ovatis serrato-mucronatis obtusis.—*Vent. hort. cels* 95.

In North America. *Bosc.* ♃. +. Flowers rose-coloured.

3. A. foliis bipinnatifidis pilosis laciniis linearibus dentatis mucronatis, caulibus sulcatis. *Smith fl. brit.* 2. *p.* 908. *Willd. sp. pl.* 3. *p.* 2208. *Millefolium.*
Icon. *Fl. dan.* 737. *Engl. bot.* 758.
In fields and on road sides; common. ♃. June—Aug. *v. v.* Probably introduced from Europe. Flowers white or rose-coloured.

4. A. foliis bipinnatifidis villosis, pinnis confertissimis, laciniis lineari-lanceolatis integerrimis, corymbo composito. *Willd. sp. pl.* 3. *p.* 2209. *tomentosa.*
Icon. *Bot. mag.* 498. *Gmel. it.* 1. *t.* 25. *f.* 2.
On the banks of the Kooskoosky. *M. Lewis.* ♃. June. *v. s. in Herb. Lewis.* Flowers yellow.

647. TETRAGONOTHECA. *L'Herit. stirp. p.* 177.

1. T. hirsutissima; foliis oppositis amplexicaulibus spathulato-ovatis, summis ovatis acuminatis dentatis triplinervibus.—*Willd. sp. pl.* 3. *p.* 2116. *helianthoides.*
Polymnia Tetragonotheca. *Syst. veg.* 658.
Icon. *Dill. elth. t.* 283. *f.* 365.
In fertile soil, on the borders of woods and along hedges: Virginia to Florida. ♃. July—Sept. *v. v.* From four to six feet high; flowers large, yellow.

648. HELIOPSIS. *Pers. syn.* 2. *p.* 473.

1. H. foliis oppositis ovatis serratis triplinervibus. *Pers. syn.* 2. *p.* 473. *lævis.*
Buphthalmum helianthoides. *Willd. sp. pl.* 3. *p.* 2236.
Helianthus lævis. *Sp. pl.* 1278.
Rudbeckia oppositifolia. *Sp. pl.* 1280.
Silphium solidaginoides. *Sp. pl.* 1302.
On the banks of rivers, and in rocky shady places: Pensylvania to Carolina. ♃. Aug.—Oct. *v. v.* A tall plant, resembling a species of *Helianthus.*

649. BUPHTHALMUM. *Gen. pl.* 1231.

1. B. foliis oppositis cuneato-lanceolatis carnosis incanis, petiolis bidentatis, caule fruticoso.—*Willd. sp. pl.* 3. *p.* 2229. *frutescens.*
Icon. *Dill. elth. t.* 28. *f.* 4. *Pluk alm. t.* 115. *f.* 4. *Catesb. fl. car.* 1. *t.* 93.

On the sea-coast: Virginia to Florida. ♄. Aug. Sept. *v. v.* A shrub about five feet high.

angustifolium. 2. B. foliis alternis linearibus superne latioribus integerrimis glabris, calycinis foliolis acute-lanceolatis.—*Herb. Banks. mss.*

In Georgia and Florida. *Bartram.* ♃. *v. s. in Herb. Banks.*

sagittatum. 3. B. tomentosum; foliis radicalibus longissime petiolatis oblongis sagittatis integerrimis subtrinervibus, caulinis oblongis in petiolum attenuatis, caule subtrifloro, calycinis foliolis exterioribus disco longioribus.

On dry barren hills, in the Rocky-mountains. *M. Lewis.* ♃. June, July. *v. s. in Herb. Lewis.* Flowers large, yellow. The natives eat the young stems as they spring up, raw.

650. AMELLUS. *Gen. pl.* 1315.

villosus. 1. A. villosissimus; foliis sessilibus oblongis acuminatis integerrimis, floribus axillaribus brevi-petiolatis, radiis integris, paleis setaceis.

On the Missouri. ♃. *v. s.* Rays yellow.

spinulosus. 2. A. canescens; foliis bipinnatifidis inciso-dentatis, laciniis linearibus rigido-mucronatis, floribus lateralibus et terminalibus congestis, radiis bidentatis, paleis setaceis.

In open prairies on the Missouri. *M. Lewis.* ♃. Aug. Sept. *v. s. in Herb. Lewis.* Rays yellow.

Tota planta rigida, scabra, cano-viridescens. *Caulis* ramosissimus. *Rami* angulosi. *Ramuli* laterales breves, uniflori. *Folia* alterna, bipinnatifida, rigida, laciniis linearibus, spinula terminatis, inferioribus inciso-dentatis. *Flores* laterales solitarii et terminales congesti, subcorymbosi, lutei. *Calyx* imbricatus: squamis exterioribus brevioribus, acutis, hirsutis; interioribus linearibus, scariosis. *Corollulæ* radii lineari-lanceolatæ, bidentatæ. *Receptaculum: Paleis* brevibus, subulatis.

Both species are an intermediate link between *Aster* and *Inula.* They approach the nearest to *Amellus*; but the receptacle is not, properly speaking, paleaceous, but only setaceous.

651. VERBESINA. *Gen. pl.* 1317.

virginica. 1. V. caule angusto alato, foliis alternis lato-lanceolatis subserratis, corymbo composito, calycibus oblongis pubescentibus.—*Willd. sp. pl.* 3. *p.* 2222.

In shady woods on the mountains: Pensylvania to Carolina. ♃. July—Sept. *v. v.* Rays from three to four, white.

2\. V. caule alato, foliis oppositis ovato-lanceolatis utrinque acuminatis acute serratis, panicula brachiata, ramulis summitate fasciculifloris.—*Willd. sp. pl.* 3. *p.* 2224. ***Siegesbeckia.***

Siegesbeckia occidentalis. *Sp. pl.* 1269.

In shady woods: Virginia to Carolina. ♃. July—Sept. *v. v.* Rays from one to three, yellow. It has a strong resemblance to *Phæthusa*.

3\. V. caule alato, foliis alternis lanceolatis serratis, panicula corymbosa laxa foliosa, calycibus laxis patulis, disco subgloboso.—*Mich. fl. amer.* 2. *p.* 134. ***Coreopsis.***

Coreopsis alternifolia. *Willd. sp. pl.* 3. *p.* 2237.

α. V. radiata aut flosculosa luteiflora. *Mich. l. c.* lutea.

Icon. *Jacq. hort. vind. t.* 110. *Pluk. alm. t.* 159. *f.* 3.

β. V. semper flosculosa albiflora. *Mich. l. c.* alba.

Athanasia paniculata. *Walt. fl. car.* 201.

In the mountains of Virginia and Carolina. β. On the Carolina coast. ♃. July—Sept. *v. v.* From three to seven feet high; flowers yellow. The white variety I have only seen in the Walterian Herbarium, and I strongly suspect it to be a very distinct species.

4\. V. caule alato, foliis alternis lato-lanceolatis acutis leviter dentatis subtus albido-villosis, supra aspero-pubescentibus, pedunculis unifloris aggregatis.—*Mich. fl. amer.* 2. *p.* 135. ***helianthoides.***

In the western parts of the Allegany mountains: Tennassee and Illinois. ♃. Aug. Sept. *v. s.* Flowers like *Helianthus*.

652. ZINNIA. *Gen. pl.* 1304.

1\. Z. floribus pedunculatis, foliis oppositis ovato-lanceolatis subpetiolatis. *Willd. sp. pl.* 3. *p.* 2139. ***multiflora.***

Icon. *Linn. dec. t.* 12. *Jacq. obs.* 2. *t.* 40. *Bot. mag.* 149.

On the banks of the Mississippi. ⊙. July, Aug. *v. v.* Rays yellow, orange, and sometimes brick-red.

III. FRUSTRANEA.

653. BIDENS. *Gen. pl.* 1267.

cernua. 1. B. floribus subradiatis cernuis, calyce exteriore flore longiore, foliis lanceolatis subconnatis dentatis. *Willd. sp. pl.* 3. *p.* 1716.

Icon. *Fl. dan.* 841. *Curtis fl. lond.* 3. *t.* 55. *Pet. hort. brit. t.* 20. *f.* 6.

minima. β. B. foliis lanceolatis sessilibus, floribus seminibusque erectis. *Sp. pl.* 1165.

Icon. *Fl. dan.* 312. *Dill. in Raii syn. t.* 7. *f.* 2.

Coreopsis. γ. B. foliis lanceolatis serratis oppositis amplexicaulibus. *Sp. pl.* 1281.

Icon. *Barrel. ic. t.* 1209. *Loess. fl. pruss. t.* 11.

About ponds, ditches and springs: Canada to Pensylvania. ⊙. Aug. Sept. The flowers of this and all the following species are yellow, and the most of them are either without or with rays.

chrysanthemoides. 2. B. floribus radiatis cernuis, radio calyci subæquali triplo longiore, foliis oblongis utrinque attenuatis dentatis basi connatis. *Willd. sp. pl.* 3. *p.* 1717. *Muh. fl. amer.* 2. *p.* 136.

Coreopsis flammula. *Herb. Banks. mss.*

Coreopsis perfoliata. *Walt. fl. car.* 215.

In overflowed places and about ponds: New England to Carolina. ⊙. Aug.—Oct. *v. v.* Flowers large, bright yellow. The awns of the seeds are by two, three, or four; not always by two, as Michaux asserts.

frondosa. 3. B. floribus discoideis, calyce exteriore flore sexduplo longiore, foliolis basi ciliatis, foliis inferioribus pinnatis, superioribus ternatis lanceolatis serratis. *Willd. sp. pl.* 3. *p.* 1718.

Icon. *Moris. hist.* 3. *s.* 6. *t.* 5. *f.* 21.

In shady fertile woods and fields: Pensylvania to Carolina. ⊙. July—Oct. *v. v.*

connata. 4. B. floribus discoideis, calyce exteriore flore triplo longiore, foliis caulinis ternatis, foliolis lateralibus connatis, floralibus oblongo-lanceolatis. *Willd. sp. pl.* 3. *p.* 1718.

In fields and woods; frequent: Canada to Carolina. ⊙. July—Oct. *v. v.*

pilosa. 5. B. floribus discoideis, calyce exteriore longitudine interioris, foliis inferioribus pinnatis, superioribus ter-

natis, foliolis oblongis, terminali lanceolato reliquis duplo longiore. *Willd. sp. pl.* 3. *p.* 1720.

Icon. *Dill. elth. t.* 43. *f.* 51.

In old fields and cultivated grounds: Pensylvania to Carolina. ☉. July—Oct. *v. v.* A common weed.

6. B. floribus subradiatis, calyce exteriore longitudine interioris, foliis bipinnatis, foliolis lanceolatis pinnatifidis. *Willd. sp. pl.* 3. *p.* 1721. *bipinnata.*

Icon. *Herm. parad. t.* 123. *Moris. hist.* 3. *s.* 6. *t.* 7. *f.* 23.

A common weed in all old fields. ☉. July—Oct. *v. v.*

654. COREOPSIS. *Gen. pl.* 1325.

* *Foliis oppositis, indivisis.*

1. C. foliis sessilibus lanceolato-linearibus integerrimis ciliatis, pedunculis elongatis nudis, seminibus orbiculatis scabris alatis apice bidentatis emarginatis.—*Willd. sp. pl.* 3. *p.* 2256. *lanceolata.*

Icon. *Dill elth. t.* 48. *f.* 56. *Mart. cent.* 26.

β. C. caule foliisque canescenti-villosis. *Mich. fl. amer.* 2. *p.* 137. villosa.

C. crassifolia. *Willd. sp. pl.* 3. *p.* 2256.

In mountainous situations: Virginia and Carolina. ♃. Aug —Oct. *v. v.* Flowers deep yellow; rays broad with four or five teeth.

2. C. glabra; foliis petiolatis lanceolato-ovatis sensim acuminatis argute serratis, pedunculis axillaribus terminalibusque dichotome-corymbosis. *arguta.*

In Carolina. *P. Miller.* ♃. *v. s. in Herb. Banks.* Flowers middle size. This and all the rest are of a bright yellow colour.

3. C. foliis ovatis acuminatis serratis petiolatis triplinervibus decurrentibus. *alata.*

In Virginia. *Bartram.* ♂. *v. s. in Herb. Banks.*

4. C. foliis ovatis acuminatis crenato-dentatis. dentibus mucronatis, petiolis brevibus, radiis integris, seminibus cuneato-oblongis apteris apice nudis.—*Willd. sp. pl.* 3. *p.* 2257. *Mich. fl. amer.* 2. *p.* 137. *latifolia.*

On the high mountains of Virginia and Carolina. ♃. July—Sept. *v. v.* A tall growing species; flowers rather small.

** *Foliis oppositis, divisis.*

aristata. 5. C. pubescens; foliis quinato-pinnatis serratis, radiis integris lato-ovalibus, seminibus cuneato-obovatis biaristatis, aristis divaricatis.—*Willd. sp. pl.* 3. *p.* 2253.
C. aristosa. *Mich. fl. amer.* 2. *p.* 140.
In South Carolina and Illinois. ♃. Aug. Sept. *v. s.* Flowers large; rays very broad.

trichosperma. 6. C. glabella, dichotoma; foliis subquinato-pinnatis lanceolatis serratis, calycis exterioris foliolis (8) spathulatis ciliato-serratis, radiis integris, seminibus cuneatis sub-4-dentatis.—*Willd. sp. pl.* 3. *p.* 2252. *Mich. fl. amer.* 2. *p.* 139.
In cedar-swamps: New Jersey and Carolina. ♂. Aug.—Oct. *v. v.* Flowers small; resembles *C. coronata.*

auriculata. 7. C. pubescens; foliis subsessilibus ovali-lanceolatis integerrimis, inferioribus ternatis, calyce exteriore profunde partito, radiis 4-dentatis, seminibus subrotundo-obovatis apice emarginato-bidentatis.—*Willd. sp. pl.* 3. *p.* 2256.
Icon. *Pluk. alm. t.* 83. *f.* 5. & *t.* 242. *f.* 4.
On the high mountains of Virginia and Carolina. ♃. Aug.—Oct. *v. v.*

tripteris. 8. C. glabra; foliis petiolatis lanceolatis integerrimis, radicalibus pinnatis, caulinis ternatis, radiis integris, seminibus obovatis apice nudis.—*Willd. sp. pl.* 3. *p.* 2253.
Icon. *Moris. hist.* 3. *s.* 6. *t.* 3. *f.* 44.
On high mountains: Virginia to Carolina. ♃. Aug.—Oct. *v. v.*

senifolia. 9. C. subpubescens; foliis sessilibus integerrimis ternatis, radiis integris, seminibus cuneato-oblongis.—*Willd. sp. pl.* 3. *p.* 2254.
C. major. *Walt. fl car.* 214.
C. stellata. *Herb. Banks. mss.*
On dry stony hills, in the mountains of Virginia and Carolina. ♃. Aug.—Oct. *v. v.*

aurea. 10. C. foliis serratis, radicalibus 3-partitis, caulinis trifidis integrisve lanceolato-linearibus. *Willd. sp. pl.* 3. *p.* 2253.
In North America. ♃. +.

trifida. 11. C. glabra; foliis trifidis subulatis fasciculatis, pedunculis terminalibus unifloris, radiis 3-fidis, caule subflexuoso.—*Lam. encycl. suppl.* 2. *p.* 353.

Icon. *Lam. illustr. t. 704. f. 2.*
In North America. *Lamarck.* ♃. +. Resembles *C. verticillata.*

12. C. foliis verticillatis ternis quinisve pinnatis, pinnis linearibus tripartitis indivisisque, disco concolore. *Willd. sp. pl.* 3. *p.* 2252. *tenuifolia.*
C. verticillata. *Lam. encycl.* 2. *p.* 108.
Icon. *Pluk. mant. t.* 344. *f.* 4.
On high dry mountain lands: Virginia and Carolina. ♃. Aug.—Oct. *v. v.*

13. C. foliis verticillatis ternis quinisve pinnatis, pinnis linearibus tripartitis indivisisque, disco discolore. *Willd. sp. pl.* 3. *p.* 2151. *verticillata.*
C. delphinifolia. *Lam. encycl.* 2. *p.* 108.
Icon. *Bot. mag.* 156. *Ehret pict. t.* 9. *f.* 1.
On high mountains: Virginia and Carolina. ♃. Aug. —Oct. *v. v.*

14. C. glabra; foliis petiolatis, inferioribus bipinnatifidis, superioribus lineari-3-partitis, calycibus simpliciusculis, seminibus nudis.—*Willd. sp. pl.* 3. *p.* 2253. *mitis.*
In low grounds of Carolina. *Michaux.* On the Missouri. *M. Lewis.* ♂. July, Aug. *v. v.*

**** Foliis alternis.*

15. C. foliis ovato-lanceolatis acutis denticulatis subhirtis, floribus corymboso-paniculatis. *acuta.*
In Georgia. *Bartram.* ♂. *v. s. in Herb. Banks.*

16. C. caule glabro superne nudiusculo dichotomo. foliis plerumque alternis indivisis integerrimis in petiolum angustatis, seminibus obovatis bisetosis scabris, ala marginali fimbriato-lacera.—*Mich. fl. amer.* 2. *p.* 137. *dichotoma.*
C. gladiata. *Walt. fl. car.* 215.
In shady sphagnous swamps of New Jersey and Carolina. ⊙. July—Oct. *v. v.*

17. C. foliis ellipticis acuminatis serratis petiolatis venosis decurrentibus, inferioribus verticillatis, superioribus alternis. *Willd. sp. pl.* 3. *p.* 2258. *procera.*
In North America. *Aiton.* ♃. +.

18. C. foliis lineari-lanceolatis integerrimis lævibus, radiis oblongis trifidis, lacinia media majore.—*Willd. sp. pl.* 3. *p.* 2257. *angustifolia.*
In Carolina and Florida. *Bartram.* ♃. *v. s. in Herb. Banks.*

aspera. 19. C. foliis lanceolato-linearibus asperis, superioribus alternis, inferioribus oppositis, caule unifloro.
In Maryland. *v. s. in Herb. Banks.*

655. HELIANTHUS. *Gen. pl.* 1322.

* *Foliis oppositis.*

atrorubens. 1. H. totus hispidus; caule superne nudiusculo laxe paniculato, foliis spathulatis ovatis crenatis triplinervibus scabris, squamis calycinis ovato-lanceolatis longitudine disci atropurpureo.—*Willd. sp. pl.* 3. *p.* 2245.
Icon. *Dill. elth. t.* 94. *f.* 110. *Mart. cent. t.* 20.
In gravelly and slate soil, in the western parts: Pensylvania to Carolina. ♃. ♂. Aug. Sept. *v. v.* Rays yellow; disk dark purple.

pubescens. 2. H. cano-pubescens; caule villoso, foliis sessilibus cordato-ovatis amplexicaulibus triplinervibus adpresso-subserratis, calycinis squamis lanceolatis villosis.—*Willd. sp. pl.* 3. *p.* 2244.
H. mollis. *Lam. encycl.* 3. *p.* 81.
H. canescens. *Mich. fl. amer.* 2. *p.* 140.
In wet meadows of Kentucky and Tennassee. ♂. Aug. —Oct. *v. s.* Both ray and disk are yellow, which is the case with all the following species.

divaricatus. 3. H. caule glabro ramosissimo, foliis suboppositis sessilibus lanceolato-ovatis trinervibus, panicula trichotoma gracili parviflora.—*Willd. sp. pl.* 3. *p.* 2244.
Icon. *Moris. hist.* 3. *s.* 6. *t.* 7. *f.* 66. *mala.*
On the borders of woods and in hedges: Canada to Pensylvania. ♃. Aug.—Nov. *v. v.* About five or six feet high; flowers smaller than any other species here enumerated.

frondosus. 4. H. caule inferne glabro, foliis ovatis argute serratis, pedunculis scabris, calycibus squarrosis undulatis frondosis ciliatis, radiis 8-floris.—*Willd. sp. pl.* 3. *p.* 2241.
In Canada. ♃. +. About four feet high; resembles *H. decapetalus* and *multiflorus* in several respects, but is distinct.

trachelifolius. 5. H. foliis ovato-lanceolatis acuminatis serratis triplinervibus utrinque scaberrimis, calycinis squamis lineari-lanceolatis ciliatis, exterioribus longioribus. *Willd. sp. pl.* 3. *p.* 2241.
H. Gigas. *Mich. fl. amer.* 2. *p.* 141.

In woods and dry swamps: Canada to Carolina. ♃. Aug.—Oct. *v. v.* Resembles *H. decapetalus.* About three feet high.

6. H. glaberrimus; caule paniculato, ramis summitate paucifloris, foliis subsessilibus longissime-lanceolatis triplinervibus integerrimis, inferioribus serratis, calycinis squamis ovatis acutis, exterioribus linearibus divaricatis. *longifolius.*

In the western parts of Georgia. *Lyon.* ♃. Aug.—Oct. *v. v.* From four to seven feet high; stem dark purple and very smooth; flowers middle size.

** *Foliis superioribus alternis.*

7. H. foliis alternis lanceolatis serratis scabris obsolete triplinervibus utrinque attenuatis subsessilibus basi ciliatis, calycinis squamis lanceolatis ciliatis. *Willd. sp. pl.* 3. *p.* 2242. *giganteus.*

In dry swamps and on mountain meadows: Canada to Carolina. ♃. Aug.—Oct. *v. v.* A tall, rough-looking plant; horses are fond of its young shoots. Stems rough and green.

8. H. foliis alternis ovato-lanceolatis serratis scabris triplinervibus, apice attenuatis petiolatis, petiolis ciliatis, calycinis squamis lanceolatis ciliatis. *Willd. sp. pl.* 3. *p.* 2243. *altissimus.*

Icon. *Jacq. hort. vind. t.* 160.

In copses and mountain meadows: Pensylvania to Carolina. ♃. July—Sept. *v. v.* Resembles the preceding; stems smooth and purple; the chaff of the receptacle is green in this species, but black in the preceding.

9. H. foliis ovatis acuminatis serratis triplinervibus subtus scabris, calycinis squamis lineari-lanceolatis basi ciliatis. *Willd. sp. pl.* 3. *p.* 2242. *strumosus.*

Icon. *Bocc. sic. t.* 27. *f.* 4.

In Canada and New England. ♃. Aug.—Oct. *v. v.*

10. H. caule debili prostrato, foliis lanceolatis acuminatis scabris serratis triplinervibus, superioribus integerrimis, calycinis squamis lanceolatis ciliatis.—*Willd. sp. pl.* 3. *p.* 2242. *prostratus.*

In North America. *Willdenow.* ♃. +.

11. H. foliis ovatis acuminatis remote serratis triplinervibus scabris, calycinis squamis lanceolatis subæqualibus *decapetalus.*

subciliatis, radiis denis duodenisve.—*Willd. sp. pl.* 3. *p.* 2241.

Icon. *Rob. ic.* 235.

In dry stony soil, in woods, and on road sides: Canada to Virginia. ♃. Aug.—Oct. *v. v.* About three or four feet high. Resembles the following.

multiflorus. 12. H. foliis triplinervibus scabris, inferioribus cordatis, superioribus ovatis, radio multifloro, calycinis squamis lanceolatis. *Willd. sp. pl.* 3. *p.* 2239.

Icon. *Bot. mag.* 227. *Pluk. phytogr. t.* 159. *f.* 2.

In dry mountain woods: Pensylvania to Carolina. ♃. July—Sept. *v. v.*

mollis. 13. H. foliis ovatis acuminatis triplinervibus adpresso-serratis supra scabris, subtus cano-pubescentibus mollissimis, calycinis squamis lanceolatis adpressis. *Willd. enum.* 920. *Willd. sp. pl.* 3. *p.* 2240.

H. tomentosus. *Mich. fl. amer.* 2. *p.* 141.

In exsiccated swamps: Pensylvania and Virginia. ♃. July—Oct. *v. v.* Leaves very rough on the upper surface, and soft underneath.

macrophyllus. 14. H. foliis ovatis acuminatis triplinervibus serratis supra scabris, subtus cano-pubescentibus, calycinis squamis linearibus squarrosis. *Willd. hort. berol.* 70. *cum icone.*

In Pensylvania and Virginia, on the borders of woods. ♃. Aug.—Oct. *v. v.*

angustifolius. 15. H. caulibus gracilibus subunifloris, foliis linearibus margine revolutis asperis.—*Willd. sp. pl.* 3. *p.* 2244.

Rudbeckia angustifolia. *Willd. sp. pl.* 3. *p.* 2250.

Icon. *Mill. ic. t.* 224. *f.* 2.

In cedar-swamps: New Jersey to Florida. ♃. Sept.—Nov. *v. v.* Rays deep yellow, disk brown.

656. GALARDIA. *Gen. pl.* 1323.

bicolor. 1. G. caule ramoso, foliis amplexicaulibus lanceolatis inciso-dentatis obtusis, paleis pappi integerrimis aristatis. —*Willd. sp. pl.* 3. *p.* 2245.

G. lanceolata. *Mich. fl. amer.* 2. *p.* 142.

Gaillarda pulchella. *Fougeroux act. par.* 1785.

Colonnea pulcherrima. *Buchoz. ic. t.* 126.

Virgilia helioides. *L'Herit. monog. Smith exot. bot. p.* 71. *t.* 37.

Leysera caroliniana. *Walt. fl. car.* 211. *secundum Herb.*
Icon. *Lam. illustr. t.* 708.
In dry sandy soil: Carolina to Florida. ☉. July, Aug. *v. v.* About two feet high; flowers large and very showy; rays orange with red towards the base, disk dark purple with orange.

2. G. caule simplicissimo unifloro, foliis radicalibus obovatis, caulinis linearibus, paleis pappi laceris. *Willd. sp. pl.* 3. *p.* 2246. *fimbriata.*
In open swamps of Carolina and Florida. *Michaux.* +.

3. G. hirsutissima, scabra; caule ramoso, foliis lineari-lanceolatis sessilibus, paleis pappi (5—7) ovato-lanceolatis longissime aristatis. *aristata.*
On dry hills on the Rocky-mountains. *M. Lewis.* ♂. *v. s. in Herb. Lewis.* Flowers orange-coloured.
Planta hirsutissima. *Caulis* erectus, teres, ramosus. *Rami* uniflori. *Folia* caulina alterna, longe-lineari-lanceolata, sessilia, scabra, hirsutissima. *Calyx* subimbricatus, polyphyllus: foliolis lineari-oblongis, acutissimis, disco duplo longioribus, margine coloratis. *Corollulæ: Radii* circiter 12. obcuneatæ, 3-fidæ: laciniis oblongis, subæqualibus, obtusiusculis; *Disci* tubulosæ, 5-fidæ: laciniis extus purpurascentibus hirsutissimis. *Receptaculum* in ambitu subpaleaceum, centro setosum. *Pappus:* paleis 5—7. scariosis, ovatis, longissime-setaceo-aristatis.

657. RUDBECKIA. *Gen. pl.* 1324.

1. R. aspera; foliis inferioribus lato-ovatis basi attenuatis remote dentatis, caulinis lanceolato-ovatis utrinque acuminatis subintegerrimis, radiis longissimis dependentibus bifidis.—*Willd. sp. pl.* 3. *p* 2249. *purpurea.*
Icon. *Bot. mag.* 2. *Catesb. car.* 2. *t.* 59. *Pluk. alm. t.* 21. *f.* 1.
In the mountains: Virginia to Florida. ♃. Aug.—Oct. *v. v.* A highly ornamental perennial; flowers large, rays purple, disk brown.

2. R. glabra; foliis oblongo-lanceolatis cordatis amplexicaulibus, inferioribus serratis, disco cylindraceo-conico.—*Willd. sp. pl.* 3. *p.* 2249. *amplexifolia.*
R. amplexicaulis. *Vahl in act. soc. nat. scrut. haf.* 2. *p.* 29. *t.* 4.

R. perfoliata. *Cav. ic. 3. p. 27. t. 252.*
Icon. *Jacq. ic. rar. 3. t. 592.*
In Lower Louisiana, on the banks of the Mississippi. ☉. July, Aug. *v. v.* Flowers deep yellow.

lævigata. 3. R. undique glaberrima; caule lævigato paniculato, ramis corymbosis, pedunculis elongatis unifloris, foliis ovato-lanceolatis utrinque acuminatis triplinervibus integerrimis aut dente uno alterove instructis lævigatis, calycinis foliolis lanceolatis longitudine radii.
In Georgia. *Lyon.* ♃. *v. s. in Herb. Lambert.* Rays pale yellow, short.

discolor. 4. R. ramis corymbosis unifloris, pedunculis nudis elongatis, foliis lanceolatis strigoso-pilosis subintegerrimis, calycinis foliolis ovatis acutis, petalis lanceolatis integerrimis discoloribus longitudine calycis.
In Florida. *Bartram.* ♃. *v. s. in Herb. Banks.* Flowers small, rays yellow, and deep orange or purple underneath.

spathulata. 4. R. gracilis, pubescens; caulibus unifloris, foliis obovato-spathulatis integerrimis, calyce patulo imbricato, radiis tridentatis.—*Willd. sp. pl.* 3. *p.* 2249.
R. gracilis. *Herb. Banks. mss.*
In the mountains of Carolina. *Michaux.* In Florida. *Bartram.* ♂. July, Aug. *v. s. in Herb. Banks.*

aristata. 5. R. caule hispido, ramis elongatis corymbosis unifloris, foliis lanceolato-oblongis serratis hispidis, disco subhemisphærico, paleis pappi subulatis aristatis.—*Herb. Banks. mss.*
In South Carolina. *v. s. in Herb. Banks.* Flowers small, deep yellow.

fulgida. 6. R. caule hispido, ramis virgatim elongatis unifloris, foliis oblongo-lanceolatis denticulatis hispidis basi angustatis subcordatis, calyce foliaceo radium subæquante, disco hemisphærico, paleis lanceolatis.—*Willd. sp. pl.* 3. *p.* 2248.
In mountain meadows and woods: Pensylvania to Carolina. ♃. July—Oct. *v. v.* Rays dark orange-coloured, disk deep purple.

hirta. 7. R. hirsutissima; caulibus virgatis subramosis unifloris, pedunculo nudo, foliis ovato-spathulatis triplinervibus serratis hirtis, calyce foliaceo radium subæquante, disco conico, paleis lanceolatis.—*Willd. sp. pl.* 3. *p.* 2248.
Icon. *Dill. elth. t.* 218. *f.* 285. *Pluk. alm. t.* 242. *f.* 2.

In the mountains: Virginia to Florida. ♂. July—Sept. *v. v.* Resembles the preceding; rays yellow, disk dark brown.

8. R. caule inferne hispido, superne glabro nudiusculo, pedunculis longissimis unifloris, foliis ovatis attenuatis tuberculatis hispidis, calycibus imbricatis, squamis ovatis acuminatis ciliatis. *Radula.*

In Georgia. *Bartram.* ♂. *v. s. in Herb. Banks.*

9. R. hispido-pilosa; caule paniculato, ramis divaricatis multifloris foliosis, foliis lanceolatis utrinque acuminatis serratis, inferioribus trilobis, calycinis foliolis linearibus deflexis longitudine radii.—*Willd. sp. pl.* 3. *p.* 2247. *triloba.*

Icon. *Pluk. alm.* 22. *f.* 2.

In the Virginia and Carolina mountains. ♃. ♂. Aug. Sept. *v. v.* About four or five feet high; flowers small, pale yellow.

10. R. brevi pubescentia subtomentosa; caule ramoso, ramis erectis multifloris, foliis oblongo-lanceolatis acutis subserratis, inferioribus trilobis, calycinis foliolis incumbentibus radio brevioribus. *subtomentosa.*

R. triloba β. *Mich. fl. amer.* 2. *p.* 144.

In mountain meadows: Virginia and Illinois. ♃. Aug. Sept. *v. v.* Not near so high as the preceding, from which it is very distinct, though Michaux considers it only a variety.

11. R. caule stricto simplici summitate paucifloro, pedunculis elongatis, foliis pinnatifidis incisis, laciniis linearibus, calyce simplici 5-phyllo, radiis 5—8., disco cylindraceo elongato. *columnaris.*

R. columnifera. *Fraser catal.* 1813.

On the Missouri. *v. s.* The singular appearance of the receptacle of this plant distinguishes it from all the other known species.

12. R. foliis inferioribus pinnatis, pinnis 3-lobis, summis ovatis, pappo crenato, caule glabro. *Schrad. new. journ.* 2. *p.* 61. *Willd. enum.* 921. *laciniata.*

Icon. *Moris. hist.* 3. *s.* 6. *t.* 6 *f.* 53. *Corn. canad. t.* 179.

On the edges of swamps and ditches: Canada to Virginia. ♃. Aug.—Oct. *v. v.* From five to ten feet high.

13. R. foliis inferioribus pinnatis, pinnis pinnatifidis, superioribus simplicibus pinnatis, summis 3-fidis, pappo *digitata.*

crenato, caule lævi. *Schrad. new. journ.* 2. *p.* 61. *Willd. enum.* 921.

Icon. *Moris. hist.* 3. *s.* 6. *t.* 6. *f.* 54.

In the mountains of Virginia and Carolina. ♃. Aug.—Oct. *v. v.* Resembles the preceding.

pinnata. 14. R. foliis omnibus pinnatis, pinna una alterave inferiorum bipartita, reliquis indivisis, pappo integerrimo, caule sulcato hispido. *Schrad. new. journ.* 2. *p.* 61. *Willd. enum.* 921. *Mich. fl. amer.* 2. *p.* 144.

R. digitata. *Willd. sp. pl.* 3. *p.* 2247. *excl. syn. Morison. et Aiton.*

R. odorata. *Hortul.*

Icon. *Smith exot. bot.* 38. *Vent. jard. cels* 71.

In the western parts of Carolina and Georgia. ♃. July—Oct. *v. v.* Flowers very showy, of an anise scent; rays long, bright yellow, hanging downwards; disk ovate, purple.

658. CENTAUREA. *Gen. pl.* 1331.

Cyanus. 1. C. squamis calycinis serratis, foliis linearibus integerrimis, inferioribus dentatis. *Smith fl. brit.* 2. *p.* 911. *Willd. sp. pl.* 3. *p.* 2291.

Icon. *Engl. bot.* 277. *Fl. dan.* 993.

In rye and wheat fields; rare. Brought from Europe with the grain. ⊙. July, Aug. *v. v.* Flowers blue.

solstitialis. 2. C. calycibus palmato-spinosis solitariis, spinis rectis, foliis canescentibus lineari-lanceolatis decurrentibus integerrimis, radicalibus lyratis. *Willd. sp. pl.* 3. *p.* 2309.

Icon. *Engl. bot.* 243.

In sandy fields and woods: New Jersey: introduced from Europe. ⊙. July, Aug. *v. v.* Flowers yellow.

IV. *NECESSARIA.*

659. CHAPTALIA. *Vent. hort. cels* 61.

1. C. foliis ovato-oblongis integerrimis subtus argenteo-tomentosis, scapo nudo unifloro, flore nutante.—*Vent. l. c. cum icone.* *tomentosa.*
Tussilago integrifolia. *Mich. fl. amer.* 2. *p.* 121.
Perdicium semiflosculare. *Walt. fl. car.* 204.
In sandy fields and woods, in moist soil: Carolina to Florida. ♃. May, June. *v. v.* Flowers white, with a tinge of pale purple.

660. SILPHIUM. *Gen. pl.* 1334.

1. S. caule superne hispido, foliis radicalibus caulinisque pinnatifidis, laciniis dentato-sinuatis, calycinis foliolis subcordatis acuminatis.—*Willd. sp. pl.* 3. *p.* 2330. *laciniatum.*
Icon. *Linn. fil. fasc.* 1. *t.* 3.
On the banks of rivers in the western territories, particularly on the Mississippi. ♃. Aug.—Oct. *v. v.* From eight to twelve feet high; flowers large, and, as all the rest of the genus, yellow.

2. S. caule lævi, foliis caulinis sinuato-pinnatifidis, radicalibus ternatis sinuato-multifidis, floribus parvis paniculatis.—*Willd. sp. pl.* 3. *p.* 2331. *compositum.*
S. laciniatum. *Walt. fl. car.* 217.
S. sinuatum. *Herb. Banks. mss.*
In gravelly woods, near the sea-coast: Virginia and Carolina. ♃. Aug.—Oct. *v. v.* Not above two feet high; flowers small.

3. S. caule lævi, foliis radicalibus amplis cordatis, caulinis alternis ovatis serratis scabris.—*Willd. sp. pl.* 3. *p.* 2331. *terebinthinaceum.*
Icon. *Jacq. hort.* 1. *t.* 43.
In the western mountains and Louisiana. ♃. Aug.—Oct. *v. v.* About five feet high; radical leaves very large.

4. S. caule tetragono lævi, foliis oppositis connatis ovatis serratis.—*Willd. sp. pl.* 3. *p.* 2331. *perfoliatum.*
β. S. squamis calycinis quatuor exterioribus calyce interiore longiore. *Willd. enum.* 933. conjunctum.
In the Allegany mountains: Pensylvania to Carolina.

♃. July—Oct. *v. v.* A tall robust plant. Var. β. though considered by Willdenow as a distinct species, appears to be little more than a variety.

connatum. 5. S. caule tereti hispido, foliis oppositis connatis remote serratis scabris.—*Willd. sp. pl.* 3. *p.* 2332.

In high mountains of Virginia and Carolina. ♃. Aug. Sept. *v. v.* Resembles the preceding, but is a very distinct species.

Asteriscus. 6. S. caule tereti hispido, foliis oppositis alternisve oblongis acutis serratis scabris, calycibus ciliatis.—*Willd. sp. pl.* 3. *p.* 2332.

Icon. *Dill. elth. t.* 37. *f.* 42.

In mountain meadows: Virginia and Carolina. ♃. July—Sept. *v. v.*

pumilum. 7. S. caule tenuiter tomentoso, foliis ovalibus leviter serratis obtusis subtomentosis, calycinis foliolis obovatis obtusis, seminibus muticis.—*Willd. sp. pl.* 3. *p.* 2332.

S. patulum. *Herb. Banks.*

In Florida. *Michaux. Bartram.* ♃. *v. s. in Herb. Banks.*

integrifolium. 8. S. caule tetragono aspero, foliis oppositis sessilibus oblongis integerrimis scabris, floribus paucis breviter pedunculatis.—*Willd. sp. pl.* 3. *p.* 2333.

On the most western of the Allegany mountains and Illinois. ♃. Aug.—Oct. *v. v.* About four feet high.

lævigatum. 9. S. caule simplici tetragono sulcato glabro, foliis oppositis sessilibus ovatis acuminatis tenuissime serratis basi subcordatis utrinque glabris, calycinis squamis ovatis ciliatis.

In Georgia. *Enslen.* ♃. *v. s. in Herb. Enslen.* About two feet high; flowers in a close corymb.

trifoliatum. 10. S. caule sexangulo lævi, foliis terno-verticillatis ovato-lanceolatis inæqualiter dentato-serratis scabris, superioribus sessilibus, panicula trichotoma.—*Willd. sp. pl.* 3. *p.* 2333.

S. ternifolium. *Mich. fl. amer.* 2. *p.* 146.

Icon. *Moris. hist.* 3. *s.* 6 *t.* 3. *f.* 68.

On the high mountains of Virginia and Carolina. ♃. Sept. Oct. *v. v.* About six feet high.

ternatum. 11. S. caule tereti lævi, foliis terno-verticillatis petiolatis lanceolatis subdenticulatis scabriusculis basi ciliatis, superioribus sparsis sessilibus, panicula dichotoma, calycibus ciliatis.—*Willd. sp. pl.* 3. *p.* 2333.

In North America. *Retz.* ♃. *v. s. in Herb. Lambert.*

12. S. caule tereti lævi, foliis subquaterno-verticillatis lanceolatis scabris subintegerrimis subsessilibus basi ciliatis, superioribus sparsis, panicula dichotoma.—*Willd. sp. pl.* 3. *p.* 2334. *atropurpureum.*

In Carolina and Georgia. *Lyon.* ♃. Aug. Sept. *v. v.* Resembles the preceding; but its purple smooth stem distinguishes it at first sight.

13. S. caule petiolisque tomentosis, ramis unifloris, foliis alternis cordatis ovatis serratis petiolatis villosis, seminibus muticis.—*Herb. Banks. mss.* *tomentosum.*

In Georgia. *Bartram.* ♃. *v. s. in Herb. Banks.*

14. S. foliis alternis petiolatis cordatis sinuatis, squamis calycinis obtusis. *Herb. Banks. mss.* *elatum.*

In Carolina. ♃. *v. s. in Herb. Banks.*

15. S. foliis alternis ovato-lanceolatis cordatis serratis obtusiusculis villosiusculis. *Herb. Banks. mss.* *reticulatum.*

In Florida. ♃. *v. s. in Herb. Banks.*

661. POLYMNIA. *Gen. pl.* 1335.

1. P. viscido-villosa; foliis denticulatis acuminatis, inferioribus pinnatifidis, superioribus trilobis integrisve.—*Willd. sp. pl.* 3. *p.* 2335. *canadensis.*

Icon. *Amœn. acad.* 3. *t.* 1. *f.* 5.

In shady mountains: Canada to Virginia. ♃. June, July. *v. v.* Two or three feet high; flowers yellow; the whole plant has a strong balsamic scent.

2. P. foliis oppositis trilobis acutis in petiolum decurrentibus, lobis anguloso-sinuatis, radiis elongatis.—*Willd. sp. pl.* 3. *p.* 2335. *Uvedalia.*

P. maculata. *Cav. ic.* 3. *t.* 227.

Icon. *Pluk. alm. t.* 83. *f.* 3. *Moris. hist.* 3. *s.* 6. *t.* 7. *f.* 55. *Trew pict. suppl.* 112.

In the mountains of Virginia and Carolina. ♃. July—Sept. *v. v.* From four to eight feet high.

662. CHRYSOGONUM. *Gen. pl.* 1337.

1. C. pumilum, lanato-villosum; foliis in petiolum angustatis ovalibus dentatis.—*Willd. sp. pl.* 3. *p.* 2337. *virginianum.*

Icon. *Pluk. alm. t.* 83. *f.* 4. & *t.* 242. *f.* 3.

On dry hills: Virginia and Carolina. ♃. May, June. *v. v.* Not above a span high; flowers yellow.

663. BALTIMORA. *Gen. pl.* 1333.

recta. 1. B. scabra; caule dichotomo, foliis oppositis ovatis acuminatis serratis petiolatis.—*Willd. sp. pl.* 3. *p.* 2329.
Icon. *Pluk. mant. t.* 342. *f.* 3.
In Maryland near Baltimore. *Sp. pl.* ⊙. July. *v. v. cult.* Flowers small, yellow. I have never seen this plant in any part of the United States, and suppose it to be only an inhabitant of Vera Cruz.

664. PARTHENIUM. *Gen. pl.* 1428.

integrifolium. 1. P. foliis oblongis inæqualiter dentatis asperis, superioribus amplexicaulibus.—*Willd. sp. pl.* 3. *p.* 2385.
Icon. *Willd. hort. berol. t.* 4. *Dill. elth. t.* 225. *f.* 292. *Pluk. alm. t.* 53. *f.* 5. & *t.* 219. *f.* 1. *Lam. illustr. t.* 766.
In dry places on the mountains of Virginia and Carolina. ♃. Sept. Oct. *v. v.* About a foot high; flowers white.

665. IVA. *Gen. pl.* 1429.

ciliata. 1. I. caule herbaceo, foliis lanceolato-ovatis subserratis, spica confertiuscula, bracteis lanceolatis acuminatis petiolisque longe ciliatis.—*Willd. sp. pl.* 3. *p.* 2386.
In natural meadows: Kentucky and Illinois. ⊙. July, Aug. *v. s.* About two feet high.

imbricata. 2. I. fruticosa, glabra; foliis lineari-lanceolatis cuneatis integerrimis glabris, calycibus imbricatis.—*Willd. sp. pl.* 3. *p.* 2387. *Walt. fl. car.* 232.
I. integrifolia. *Herb. Banks. mss.*
On the sea-coast of Carolina and Georgia. ♄. *v. s. in Herb. Walter.*

frutescens. 3. I. fruticosa; foliis lanceolatis punctato-scabris profunde serratis, glomerulis florum depresso-globosis.—*Willd. sp. pl.* 3. *p.* 2387.
Icon. *Lam. encycl.* 766. *Pluk. alm. t.* 27. *f.* 1.
On the sea-coast: New England to Florida. ♄. Aug. Sept. *v. v.* A shrub about four feet high.

666. AMBROSIA. *Gen. pl.* 1427.

integrifolia. 1. A. foliis ovatis sessilibus acuminatis serratis utrinque hispidis basi ciliatis, racemis terminalibus plerumque ternis.—*Willd. sp. pl.* 4. *p.* 375.

On the banks of ponds and ditches: Pensylvania and Virginia. ☉. July—Sept. *v. v.* The flowers of this genus are very inconspicuous.

2. A. hirsutissima; foliis arcte sessilibus simplicibus oblongis supra basin latescentem utrinque unidentatis, fructu tetragono infra apicem quadrispinoso. *Mich. fl. amer.* 2. *p.* 182. *bidentata.*

In the western parts of the Allegany mountains ☉. July—Sept. *v. v.*

3. A. hirsuta, aspera; foliis 3-lobis serratis, lobis ovali-lanceolatis acuminatis, fructu infra apicem 6-spinoso.—*Willd. sp. pl.* 4. *p.* 375. *trifida.*

Icon. *Moris. hist.* 3. *s.* 6. *t.* 1. *f.* 4.

On the banks of rivers and ditches: Pensylvania to Carolina. ☉. Aug. Sept. *v. v.* From five to eight feet high.

4. A. foliis bipinnatifidis glabriusculis, petiolis longe ciliatis, racemis terminalibus paniculatis, caule virgato. *Willd. sp. pl.* 4. *p.* 376. *elatior.*

In old fields: Canada to Carolina. ☉. June—Aug. *v. v.*

5. A. foliis bipinnatifidis subtus canescentibus summis pinnatifidis, racemis ternis terminalibus, ramis fastigiatis. *Willd. sp. pl.* 4. *p.* 376. *artemisifolia.*

In fields and waste grounds: Pensylvania to Carolina. ☉. Aug. Sept. *v. v.*

6. A. foliis glabris bipinnatifidis summis pinnatifidis, racemis terminalibus solitariis, ramis fastigiatis. *Willd. sp. pl.* 4. *p.* 376. *paniculata.*

Icon. *Pluk. alm. t.* 10. *f.* 5.

In old fields and on road sides: Canada to Florida. ☉. July—Sept. *v. v.*

7. A. foliis caulinis pinnatifidis subdentatis petiolatis, rameis summis lanceolatis sessilibus, petiolis longe ciliatis, racemis terminalibus solitariis, caule paniculato. *Willd. sp. pl.* 4. *p.* 378. *heterophylla.*

On the banks of rivers and ditches: near Philadelphia. ☉. July—Sept. *v. v.*

667. XANTHIUM. *Gen. pl.* 1426.

1. X. caule inermi ramoso, foliis cordatis lobatis serratis scabris basi trinervibus, fructibus ellipticis pubescentibus setis rigidis uncinatis.—*Willd. sp. pl.* 4. *p.* 373. *Strumarium.*

Icon. *Fl. dan.* 970.

On road sides, among rubbish and cultivated grounds: New England to Pensylvania. ⊙. Aug. Sept. *v. v.* The fruit resembles the common *Burdock.*

V. *SEGREGATA.*

668. ELEPHANTOPUS. *Gen. pl.* 1347.

carolinianus. 1. E. foliis radicalibus caulinisque oblongis basi angustatis utrinque pilosis, caule simplici erecto piloso.—*Willd. sp. pl.* 3. *p.* 2390.

E. scaber. *Mich. fl. amer.* 2. *p.* 148.

Icon. *Dill. elth. t.* 106. *f.* 126. *Sloan. hist.* 1. *t.* 156. *f.* 1.

In shady woods: Virginia to Florida. ♃. Aug.—Oct. *v. v.* Flowers red.

tomentosus. 2. E. foliis radicalibus caulinisque ovatis basi attenuatis utrinque tomentosis, caule simplici tomentoso.—*Willd. sp. pl.* 3. *p.* 2390.

On dry sunny hills: Lower Virginia and Carolina. ♃. Aug.—Oct. *v. v.* Flowers deep red.

XVIII. GYNANDRIA.

I. MONANDRIA.

* *Calyculatæ; filamentum basi styli insertum.*

669. THALIA. *Cal.* minimus, triphyllus. *Cor.* 5-petala: duo interiora minora. *Anthera* simplex, ovata, filamento proprio depresso innixa. *Stylus* simplex, ab anthera deflexus. *Stigma* perforatum ringens. *Bacca* 1-sperma.
670. CANNA. *Cal.* 3-phyllus. *Cor.* 6-partita, erecta. *Nectar.* bipartitum revolutum. *Styl.* lanceolatus, corollæ adnatus. *Caps.* muricata, 3-locularis, polysperma.

** *Ecalyculatæ; filamentum nullum; anthera apice styli inserta, biloba.*

671. ORCHIS. *Cor.* ringens: petalo superiore fornicato. *Labellum* dilatatum, basi subtus calcaratum aut saccatum. *Anthera* terminalis, adnata.
672. NEOTTIA. *Cor.* ringens: petalis lateralibus exterioribus antice circa basin labelli ventricosum connexis. *Anthera* stylo parallela, postice inserta.
673. ARETHUSA. *Cor.* subringens: petalis subconniventibus. *Labellum* ecalcaratum. *Anthera* opercularis, persistens. *Pollen* pulvereo-granulatum.
674. EPIPACTIS. *Cor.* erecto-patens. *Labellum* ecalcaratum, planum, pendulum, apice bifidum. *Anthera* opercularis, persistens.
675. MALAXIS. *Cor.* patens, resupinata. *Labellum* concavo-patulum, adscendens. *Anthera* opercularis.
676. CYMBIDIUM. *Cor.* erecta vel patens. *Labellum* basi concavum, ecalcaratum, lamina patula. *Anthera* opercularis, decidua. *Pollen* globosum.

677. CALYPSO. *Cor.* 6-petala: 5. sursum expansa. *Labellum* sacciforme, dorso basis 2-calcaratum. *Stylus* late alatus. *Stigma* operculo 2-lobo absconditum. *Pollen* lamellis 4. solidis.

II. DIANDRIA.

678. CYPRIPEDIUM. *Cor.* 4-petala, patens. *Labellum* ventricoso-inflatum, obliquum. *Stylus* superne lobo petaloideo appendiculatus.

III. HEXANDRIA.

679. ARISTOLOCHIA. *Cor.* 1-petala, tubuloso-ligulata, basi ventricosa. *Styl.* 0. *Caps.* infera, 6-locularis.

IV. DODECANDRIA.

680. ASARUM. *Cor.* tubuloso-campanulata, 3–4-fida. *Antheræ* mediis filamentis adnatæ. *Caps.* infera, coronata, 6-locularis.

I. *MONANDRIA.*

669. THALIA. *Gen. pl.* 10.

dealbata. 1. T. panicula albido-pulverulenta, spathis bifloris, foliis ovatis apice revolutis.— *Roscoe in linn. trans.* 8. *p.* 340.
Icon. *In a single plate of J. Fraser.*
In impenetrable swamps of South Carolina. ♃. Aug. Sept. *v. v. s. fl.*; *v. s. c. fl. in Herb. Lambert.* A tall and handsome plant; flowers small, purple. J. Millington, Esq. of South Carolina, is, to my knowledge, the first discoverer of this elegant plant. It was introduced into the English gardens by the Messrs. Frasers.

670. CANNA. *Gen. pl.* 1.

1. C. foliis petiolatis lanceolatis costatis, corollæ limbo interiore trifido: laciniis strictis emarginatis.—*Willd. sp. pl.* 1. *p.* 3? *angustifolia.*
C. glauca. *Walt. fl. car.* 59.
In deep and almost impregnable swamps of Georgia. *Enslen.* ♃. July, Aug. *v. s. in Herb. Enslen.* Flowers scarlet. It approaches near to *C. indica,* and probably may be a new species, if not the true *C. angustifolia.*

2. C. foliis sessilibus lanceolatis glaucis, corollæ limbo interiore trifido: laciniis flaccidis.—*Roscoe in linn. trans.* 8. *p.* 339. *flaccida.*
C. glauca β. flaccida. *Willd. sp. pl.* 1. *p.* 4.
C. angustifolia. *Walt. fl. car.* 59.
Icon. *Salisb. stirp. rar.* 3. *t.* 2. *Thomps. bot. t.* 1. *Redouté liliac.* 107.
In swamps of South Carolina. ♃. Aug. Sept. *v. v.* Flowers large, yellow.

671. ORCHIS. *Swartz act. holm.* 1800, *p.* 205.

* *Radicibus testiculatis.*

1. O. labello oblongo-lanceolato pinnatim ciliato petalis duplo longiore, cornu germine longiore. *Willd. sp. pl.* 4. *p.* 8. *ciliaris.*
Icon. *Bot. rep.* 42.
In old meadows and exsiccated swamps: Canada to Carolina. ♃. June, July. *v. v.* Flowers a bright golden-yellow, very handsome.

2. O. labello lanceolato ciliato longitudine petali supremi, cornu germine longiore. *Willd. sp. pl.* 4. *p.* 9. *blephariglottis.*
Orchis testiculata floribus niveis, &c. *Clayt. no.* 560.
In low swampy bottoms: New Jersey to Carolina. ♃. June, July. *v. v.* Flowers clear white; resembles the preceding very much.

3. O. labello 3-partito, laciniis capillaceo-multifidis, petalis obtusis, cornu filiformi-clavato adscendente germinis longitudine. *Willd. sp. pl.* 4. *p.* 39. *psycodes.*
In old fields, on the side of swamps: Canada to Virginia. ♃. June—Aug. *v. s.* Flowers yellow.

4. O. labello oblongo pinnatim-ciliato, petalis rotundatis, binis lateralibus dentatis, cornu germine breviore. *Willd. sp. pl.* 4. *p.* 9. *Mich. fl. amer.* 2. *p.* 156. *cristata.*

In exsiccated swamps and mountain meadows: Pensylvania to Carolina. ♃. June, July. *v. v.* In colour and shape resembling No. 1; but the flowers are smaller and closer, in a short spike.

lacera. 5. O. labello 3-partito, laciniis subdigitato-filiformibus, cornu germen subæquante, floribus alternis.—*Mich. fl. amer.* 2. *p.* 156.

O. radice palmata, foliis lilii, &c. *Clayt. n.* 644.

In low meadows: Pensylvania to Virginia. ♃. July. *v. v.* Flowers greenish-white. Roots not known.

clavellata. 6. O. labello ovato integerrimo, petalis conniventibus, cornu clavato longitudine germinis, caule unifoliato. *Willd. sp. pl.* 4. *p.* 10. *Mich. fl. amer.* 2. *p.* 155.

In Carolina. *Michaux.* ♃. +. A loose spike, with few flowers; bractes very short.

quinqueseta. 7. O. labello 5-partito: laciniis setaceis, cornu germine duplo longiore.—*Mich. fl. amer.* 2. *p.* 155.

In sandy low fields, on the side of swamps: Virginia and Carolina. ♃. June, July. *v. v.* A loose spike, with alternate and distant flowers; bractes acuminate; leaves ovate, acute.

discolor. 8. O. labello petalis longiore tripartito: laciniis lateralibus brevibus acutis, intermedia producta spathulata, cornu filiformi germine subduplo-longiore, folio unico radicali ovato-cordato.

Orchis floribus sparsis, nectario pedunculum superante, &c.. *Gron. virg.* 137.

In pine-barrens: New Jersey to South Carolina. ♃. July. *v. v.*

Bulbis testiculatis, ovatis, acutis. *Folium* unicum, ovatum, petiolatum, plicato-nervosum, glabrum, subtus purpurascens. *Petiolus* margine plicato-undulatus. *Scapus* pedalis, nudus, vagina una alterave instructus, teres, glaber. *Flores* laxe spicati, brevissime pedicellati, nutantes, tristo- seu exviridi-purpurascentes. *Petala* oblonga, acutiuscula flexuosa *Labellum* petalis longius margine subundulatum. *Cornu* adscendens, filiforme, flexuosum, purpureum.

** *Radiculis palmatis.*

flava. 9. O. labello trifido integerrimo: lacinia media majore, cornu filiformi longitudine germinis, spica elongata congesta, bracteis flore longioribus.—*Willd. sp. pl.* 4. *p.* 33.

In Virginia. ♃. July. *v. s. in Herb. Gronov.* Flowers yellow.

10. O. labello lineari apice tridentato, petalis conniventibus, cornu obtuso scrotiformi, bracteis flore sesquilongioribus. *Willd. sp. pl.* 4. *p.* 33. *viridis.*

Satyrium viride. *Sp pl.* 1357.

Icon. *Fl. dan.* 77. *Hall. helv. t.* 26.

In dry grassy places, on the high mountains of Virginia and Carolina. ♃. June, July. *v. v.* Not above three inches high; flower small, greenish-white.

11. O. labello lanceolato apice tridentato, petalis obtusis, cornu filiformi apice clavato-adscendente germine longiore. *Willd. sp. pl.* 4. *p.* 41. *tridentata.*

On the high mountains of Pensylvania and Virginia. ♃. June, July. *v. v.* Spike consisting of but a few small white flowers.

12. O. labello lineari apice emarginato obsolete 3-dentato, petalis subconniventibus, lateralibus ovatis latioribus, cornu obtuso scrotiforme, bracteis flore duplo longioribus patentibus. *Willd. sp. pl.* 4. *p.* 34. *bracteata.*

Icon. *Parad. lond.* 110.

O. foliis duobus inferioribus ovatis, superioribus, &c. *Gron. virg.* 136.

In low shady places: Pensylvania to Virginia. ♃. July, Aug. *v. v.* About a span high; flowers green.

13. O. labello oblongo lanceolato indiviso, petalis erectis, cornu obtuso scrotiformi, germinibus pedicellatis, scapo nudo. *Willd. sp. pl.* 4. *p.* 34. *obsoleta.*

Serapias foliis ovatis radicalibus, scapo nudo multifloro. *Gron. virg.* 137.

In low shady places: New England to Virginia; rare. ♃. July, Aug. *v. v.* The bractes are very short.

*** *Radicibus fasciculatis.*

14. O. labello ovato basi dentato, petalis patentibus, cornu subulato germinis longitudine. *Willd. sp. pl.* 4. *p.* 35. *fuscescens.*

Icon. *Gmel. fl. sib.* 1. *p.* 20. *t.* 4. *f.* 2.

On grassy hills: Pensylvania. ♃. July. *v. v.* Flowers in long spikes, dark or brownish yellow; bractes very long, acuminate, and longer than the flowers.

15. O. labello obovato indiviso crenato retuso, petalis rectis, lateralibus longioribus, cornu clavato germine breviore, bracteis flore longioribus, caule aphyllo. *Willd. sp. pl.* 4. *p.* 36. *spectabilis.*

O. humilis. *Mich. fl. amer.* 2. *p.* 155.

In shady, rocky situations: New York to Carolina; particularly on the mountains. ♃. May, June. *v. v.* About a span high; flowers large, purple and white, very handsome.

orbiculata. 16. O. labello lineari integerrimo obtusiusculo, petalis 3. superioribus conniventibus, 2. lateralibus patentibus basi obliquis, cornu germine longiore, scapo basi diphyllo, foliis planis orbiculatis.

In shady beech-woods: on the mountains of Pensylvania and Virginia. ♃. July, Aug. *v. v.* Resembles *O. bifolia.* Two leaves of a fleshy texture are spread flat on the ground, between which rises the stalk about a foot or eighteen inches high, which bears a loose spike of greenish-white flowers. It is known in the mountains by the name of *Heal-all.*

dilatata. 17. O. labello lineari integerrimo obtusiusculo, basi subrotundato-dilatato, cornu longitudine labelli: germine breviore, bracteis longitudine florum, caule folioso.

O. acuta. *Herb. Banks. mss.*

In Labrador. *Colmuster.* ♃. *v. s. in Herb. Dickson.*

virescens. 18. O. labello lanceolato crenato, petalis conniventibus, cornu obtuso scrotiformi, bracteis flore longioribus. *Willd. sp. pl.* 4. *p.* 37.

In boggy meadows: Pensylvania. ♃. July. *v. s.* From a foot to eighteen inches high; flowers green.

hyperborea. 19. O. labello lanceolato magnitudine petalorum patentium, cornu subulato germine breviore, spica ovata, bracteis longitudine florum.—*Willd. sp. pl.* 4. *p.* 37.

Icon. *Retz obs. bot.* 4. *t.* 3.

In Hudson's Bay, near Albany. *Hutchinson.* ♃. June, July. *v. s. in Herb. Banks.* Flowers greenish-yellow.

obtusata. 20. O. labello lineari integerrimo cornu longiore, cornu longitudine germinis, folio unico radicali subcuneiformi-obtuso.—*Herb. Banks. mss.*

On Hudson's Bay, near Fort Albany. *Hutchinson.* ♃. *v. s in Herb. Banks.* A small species, with a few flowers only.

rotundifolia. 21. O. labello 3-fido; intermedio bifido, cornu germine breviore, foliis ovali-subrotundis.—*Herb. Banks. mss.*

On Hudson's Bay. ♃. *v. s. in Herb. Banks.*

fimbriata. 22. O. labello tripartito, laciniis cuneiformibus ciliato-fimbriatis, petalis lateralibus ovatis dentatis, cornu fili-

formi clavato germine longiore. *Willd. sp. pl.* 4. *p.* 39.
In low meadows and on high mountain bogs: Canada to Pensylvania. ♃. July. *v. v.* From a foot to two high; flowers purple, very handsome.

23. O. labello tripartito, laciniis cuneiformibus inciso-dentatis, intermedia emarginata, petalis lateralibus obtusis subdentatis, cornu subulato adscendente germinis longitudine. *Willd. sp. pl.* 4. *p.* 40. *incisa.*
In low meadows: New York to Virginia. ♃. July. *v. v.* Resembles the preceding; flowers smaller and paler in colour. In the mountain-meadows it grows, like the following, to a very great height, sometimes exceeding three and four feet.

24. O. labello tripartito, laciniis cuneiformibus dentatis, intermedio bilobo, cornu filiformi apice clavato adscendente germine longiore. *Willd. sp. pl.* 4. *p.* 40. *fissa.*
In mountain meadows: Pensylvania to Virginia. ♃. July, Aug. *v. v.* Resembles the preceding; flowers dark purple.

672. NEOTTIA. *Swartz. act. holm.* 1800. *p.* 224.

1. N. foliis radicalibus linearibus, scapo vaginato, floribus spiraliter-secundis, labio trifido; medio majori crenulato.—*Willd. sp. pl.* 4. *p.* 74. *tortilis.*
Satyrium spirale. *Swartz. prodr.* 118.
Ophrys æstivalis. *Mich. fl. amer.* 2. *p.* 157.
Limodorum præcox. *Walt. fl. car.* 221.
In low spongy meadows: Pensylvania to Carolina. ♃. June, July. *v. v.* From ten inches to a foot high; flowers white. This and the following species are known by the name of *Ladies Traces.*

2. N. foliis lanceolatis trinervibus, caule vaginato, spica oblonga densiflora, floribus recurvato-cernuis, labello oblongo integerrimo acuto.—*Willd. sp. pl.* 4. *p.* 75. *cernua.*
Ophrys cernua. *Sp. pl.* 1340.
Limodorum autumnale. *Walt. fl. car.* 221.
In grassy and springy places: Canada to Carolina. ♃. July, Aug. *v. v.* Resembles the preceding, but the spikes are closer and the flowers double the size.

3. N. foliis radicalibus ovatis petiolatis reticulatis, scapo vaginato floribusque pubescentibus, floribus secundis, labello petalisque lanceolatis. *Willd. sp. pl.* 4. *p.* 76. *repens*
Satyrium repens. *Sp. pl.* 1339.

Icon. *Jacq. austr.* 369. *Hall. helv. t.* 22. *Com. hort. t.* 35.

In rocky, shady pine-woods, on the high mountains of Virginia. ♃. July. *v. v.* Not above three inches high; stem creeping; leaves delicately veined; flowers white.

pubescens. 4. N. foliis radicalibus ovatis petiolatis reticulatis, scapo vaginato floribusque pubescentibus, labello ovato acuminato, petalis ovatis. *Willd. sp. pl.* 4. *p.* 76.

Satyrium repens. *Mich. fl. amer.* 2. *p.* 137.

In shady and rocky situations: Canada to Florida. ♃. July. *v. v.* Resembles the preceding; is more robust, and the leaves more distinctly and handsomely variegated with white veins. This plant has lately made a great noise among the country people, as infallibly curing the bite of a mad dog.

673. ARETHUSA. *Swartz. act. holm.* 1800. *p.* 230.

bulbosa. 1. A. aphylla; radice globosa, scapo vaginato unifloro, calyce laciniis superioribus incurvatis, labello subcrenulato.—*Willd. sp. pl.* 4. *p.* 80.

Icon. *Lam. illustr. t.* 729. *f.* 1. *Pluk. mant. t.* 348. *f.* 7.

In sphagnous swamps: Canada to Carolina. ♃. June. *v. v.* Flowers large, purple, sweet-scented.

ophioglossoides. 2. A. radice fibrosa, scapo dissite bifoliato 1—2-floro, foliis ovali-lanceolatis, labello fimbriato.—*Willd. sp. pl.* 4. *p.* 80.

Icon. *Lam. illustr. t.* 729. *f.* 2.

In bogs and sphagnous swamps: Canada to Carolina. ♃. June, July. *v. v.* Flowers nearly the size of the preceding, purple, sometimes white.

divaricata. 3. A. radice subpalmata, scapo remote bifoliato unifloro, foliis oblongis obtusiusculis, petalis exterioribus adscendentibus longo-linearibus, labello eroso-subcrenulato.—*Willd sp. pl.* 4. *p.* 81.

Icon. *Lam. illustr. t.* 729. *f* 3. *Catesb. car.* 1. *t.* 58.

In swamps near the sea-coast: Virginia to Florida. ♃. July. *v. v.* Flowers larger than any of the preceding, purple.

pendula. 4. A. radice tuberosa, caule folioso summitate subtrifloro, foliis ovatis alternis, floribus longo-pedunculatis alternis, labello integro.—*Willd. sp. pl.* 4. *p.* 82.

A. trianthophoros. *Swartz. act. holm.* 1800. *p.* 230.

A. parviflora. *Mich. fl. amer.* 2. *p.* 160.
Icon. *Pluk. mant. t.* 348. *f.* 6.
In shady woods, round the roots of beech-trees: New York to Kentucky. ♃. July. *v. v.* Not above three or four inches high; flowers pale purple, small.

5. A. foliis quinis oblongo-lanceolatis verticillatis, caule unifloro, petalis tribus exterioribus longissimis linearibus, interioribus lanceolatis, labello trilobo, lacinia media undulata. *Willd. sp. pl.* 4. *p.* 81. *verticillata.*
Icon. *Pluk. mant. t.* 348. *f.* 1. *bona.*
In shady woods, near the banks of rivulets: Pensylvania to Virginia. ♃. July. *v. v.* A very scarce and handsome species; flowers, the size and shape of *A. divaricata*, of a dull purple mixed with yellow. It has sometimes two or three flowers.

6. A. foliis verticillatis oblongis acuminatis, caule unifloro, flore subsessili, petalis tribus exterioribus linearibus, interioribus brevioribus oblongis obtusis, labello petalis consimile. *medeoloides.*
In shady woods on the Blue-mountains. *Vanvleck.* ♃. July. *v. s. in Herb. Vanvleck.* Resembles the preceding in general habit.

674. EPIPACTIS. *Swartz. act. holm.* 1800. *p.* 231.

1. E. foliis radicalibus ovatis acutis, scapo aphyllo pubescente laxifloro, floribus pedicellatis, labello bilobo vix petalis conniventibus longiore, capsulis clavatis, radice palmato. *pubescens.*
Ophrys pubera. *Mich. fl. amer.* 2. *p.* 158.
Arethusa racemosa. *Walt. fl. car.* 222.
Serapias foliis ovatis radicalibus, scapo nudo multifloro. *Gron. fl. virg.* 137.
In pine-barrens of Carolina and Georgia. ♃. June. *v. s. in Herb. Gronov. et Walter.* Flowers small, greenish-white.

2. E. caule bifolio, foliis oppositis cordato-subrotundis acutis, spica parviflora, labello oblongo apice dilatato obtuse bilobo, germine subgloboso, radice fibrosa.—*Willd. sp. pl.* 4. *p.* 88. *convallarioides.*
Ophrys cordata. *Mich. fl. amer.* 2. *p.* 158.
In shady cedar-swamps and sphagnous woods: Canada to New Jersey; rare. ♃. May. *v. v.* A very small plant; flowers dark-brown, mixed with green.

675. MALAXIS. *Swartz. act. holm.* 1800. *p.* 233.

ophioglossoides. 1. M. folio solitario ovato amplexicauli, scapo pentagono, labello apice bifido. *Willd. sp. pl.* 4. *p.* 90.
M. unifolia. *Mich. fl. amer.* 2. *p.* 157.
In shady woods: Pensylvania to Florida. ♃. May, June. *v. v.*

liliifolia. 2. M. foliis binis ovato-lanceolatis, scapo triquetro, petalis interioribus filiformibus reflexis discoloribus, labello concavo obovato apice acuto.—*Willd. sp. pl.* 4. *p.* 92.
Ophrys trifolia. *Walt. fl. car.* 221.
Ophrys scapo nudo, foliis radicalibus, &c. *Gron. virg. p.* 138.
Epidendrum caule erecto simplicissimo nudo, racemo simplici erecto. *Gron. virg. p.* 140.
Icon. *Bot. rep.* 65.
In shady wet woods, round the roots of trees: Canada to Virginia. ♃. June, July. *v. v.* The three outside petals are sharp-pointed, white; the two inside ones thread-shaped, yellowish, and reflex; the lower lip broad-obovate with an abrupt point of a pale olive colour.

676. CYMBIDIUM. *Swartz. nov. act. ups.* 6. *p.* 70.

pulchellum. 1. C. foliis radicalibus ensiformibus nervosis, scapo paucifloro, labello erecto basi attenuato, lamina expansa, disco concavo barbato.—*Willd. sp. pl.* 4. *p.* 105.
Limodorum tuberosum. *Syst. veg.* 680. *Mich. fl. amer.* 2. *p.* 159.
Limodorum pulchellum. *Salisb. prodr.* 8.
Ophrys barbata. *Walt. fl. car.* 221.
Icon. *Bot. mag.* 116.
In sphagnous swamps: Canada to Florida. ♃. July. *v. v.* Flowers purple, very handsome.

verecundum. 2. C. foliis radicalibus lato-lanceolatis plicato-nervosis, scapo multifloro, petalis interioribus conniventibus, labello ventricoso, lamina emarginata crispa sulcata. *Willd. sp. pl.* 4. *p.* 105.
Limodorum verecundum. *Salisb. prodr.* 9.
Limodorum tuberosum. *Jacq. collect.* 4. *p.* 108.
Limodorum altum. *Jacq. ic. rar.* 3. *t.* 602.
Limodorum trifidum. *Mich. fl. amer.* 2. *p.* 159.
Icon. *Mart. cent. t.* 50. *Mill. ic.* 145.

In Carolina and Florida. ♃. July, Aug. *v. v.* Resembles the preceding, but is larger.

3. C. foliis radicalibus geminis ovatis multinervibus, scapo simplici vaginato erecto, petalis erectis, tribus exterioribus lanceolatis, interioribus oblongis labello obovato margine undulato-crenato.—*Willd. sp. pl.* 4. *p.* 107. *hyemale.*

Arethusa spicata. *Walt. fl. car.* 222.

On the side of fertile hills, under the shade of trees: Pensylvania to Carolina. ♃. May. *v. v.* Flowers greenish-purple. It is known among the inhabitants by the name of *Adam and Eve.* The roots bruised, with a small addition of water, give a strong cement, which when applied to broken china and glass is exceedingly durable.

4. C. scapo vaginato aphyllo, floribus pedicellatis, petalis lanceolatis æqualibus, labello ovato obtuso. *Willd. sp. pl.* 4. *p.* 110. *Odontorhizon.*

Ophrys corallorhiza. *Mich. fl. amer.* 2. *p.* 158.

Icon. *Pluk. alm. t.* 211. *f.* 1 & 2.

In shady woods, about the roots of trees: Canada to Virginia. Flowers small, dark purple mixed with yellow.

677. CALYPSO. *Salisb. in parad. lond. t.* 89.

1. C. folio radicali unico subrotundo-ovato nervoso, scapo unifloro vaginato.—*Salisb. l. c.* *borealis.*

Limodorum boreale. *Willd. sp. pl.* 123.

Cypripedium bulbosum. *Sp. pl.* 1347.

Cymbidium boreale. *Swartz. nov. act. ups.* 6. *p.* 76.

Icon. *Parad. lond.* 89. *Smith spicil. t.* 11. *Gmel. fl. sib.* 1. *t.* 2. *f.* 5.

In Nova Scotia. *Menzies.* On the Columbia river. *M. Lewis.* ♃. May, June. *v. s. in Herb. Lewis.* Flower large, purplish rose-coloured; the lower lip resembling *Cypripedium.*

II. *DIANDRIA.*

678. CYPRIPEDIUM. *Swartz. act. holm.* 1800, *p.* 250.

candidum. 1. C. caule folioso, foliis oblongo-lanceolatis, lobo styli lanceolato obtusiusculo, labello petalis lanceolatis breviore compresso.—*Willd. sp pl.* 4. *p.* 142.

In Pensylvania. *Muhlenberg.* ♃. +. Resembles *C. Calceolus*; but the flowers are white, and not half the size: the form of the leaves and lobe of the style distinguish it sufficiently.

parviflorum. 2. C. caule folioso, lobo styli triangulari acuto, petalis exterioribus ovato-oblongis acuminatis, interioribus linearibus contortis, labello petalis breviore compresso. *Willd. sp. pl.* 4. *p.* 143.

C. Calceolus. *Mich. fl. amer.* 2. *p.* 161.

Icon. *Salisb. in linn. trans.* 1. *p.* 77. *t.* 2. *f.* 2. *Pluk. mant. t.* 418. *f.* 2.

In shady fertile woods: New Jersey to Carolina. ♃. May, June. *v. v.* Petals greenish-brown; lower lip yellow, with brown spots.

pubescens. 3. C. caule folioso, lobo styli triangulari-oblongo obtuso, petalis exterioribus ovato-oblongis acuminatis, interioribus longissimis linearibus contortis, labello petalis breviore compresso. *Willd. sp. pl.* 4. *p.* 143.

C. flavescens. *Redout. pl. liliac.*

C. Calceolus. β. *Sp. pl.* 1346.

Icon. *Willd. hort. berol.* 1. *t.* 13. *Moris. hist.* 3. *s.* 12. *t.* 11. *f.* 15.

C. Calceolus. *Walt. fl. car.* 222.

On sunny fertile hills, among small trees and bushes, generally in rocky situations: Pensylvania to Carolina. ♃. May. *v. v.* Petals greenish-yellow with red spots; lower lip yellow. It approaches near to the preceding. Sometimes it is found with two or three flowers.

spectabile. 4. C. caule folioso, lobo styli elliptico-cordato obtuso, petalis exterioribus lato-ovalibus obtusis, labello petalis longiore antice fisso.—*Willd. sp. pl.* 4. *p.* 143.

C. album. *Ait. kew.* 3. *p.* 303.

C. canadense. *Mich. fl. amer.* 2. *p.* 161.

C. reginæ. *Walt. fl. car.* 222.

C. Calceolus γ. *Sp. pl.* 1346.
Icon. *Bot. mag.* 216. *Pluk. mant. t.* 418. *f.* 3. *Moris. hist.* 3. *s.* 12. *t.* 11. *f.* 17.
In low meadows and bogs, particularly in the mountainous tracts: Canada to Carolina. ♃. May, June. *v. v.* From eighteen inches to three feet high. The plant in its foliage resembles *Helleborus viridis*; the flowers are generally by two, sometimes three, very large, the lower lip white with red veins, and crimson spots inside.

5. C. caule folioso, lobo styli orbiculato obtusiusculo, petalis 5. duobus inferioribus lineari-lanceolatis deflexis, lateralibus linearibus horizontalibus, supremo ovato-oblongo acuto, labello longitudine petalorum antice obverse-conico saccato.—*Ait. kew. ed.* 2. *tom.* 5. *p.* .... *Arietinum.*
In shady sphagnous woods, about Montreal, Canada. *M'Kenzie.* ♃. May. *v. v.* Flower small, petals greenish-brown; lower lip white, with crimson veins; of a very singular structure, resembling at a front view a sheep's head, the two lateral petals forming the horns. The stem is pubescent, not a span high; leaves smooth, in general alternately by four. It distinguishes itself very strongly from all the rest by having five petals, and by the singular structure of its lower lip.

6. C. scapo aphyllo unifloro, foliis radicalibus geminis oblongis obtusis, lobo styli subrotundo-rhombeo acuminato deflexo, labello petalis lanceolatis longiore antice fisso. *Willd. sp. pl.* 4. *p.* 144. *humile.*
C. acaule. *Ait. kew.* 3. *p.* 161.
Icon. *Bot. mag.* 192. *Salisb. in linn. trans.* 1. *t.* 3. *f.* 4. *Catesb. car. app. t.* 3. *Pluk. mant. t.* 418. *f.* 1.
In shady rocky situations and on dry mountain bogs: Canada to Carolina. ♃. May, June. *v. v.* Not much above a span high; flower purple, large. I have observed a white variety on the Broad-mountains, Pensylvania. The whole of this genus is known among the inhabitants by the name of *Mocassim Flower*, or sometimes *Ladies Slippers.*

III. *HEXANDRIA.*

679. ARISTOLOCHIA. *Gen. pl.* 1383.

Sipho. 1. A. foliis cordatis acutis, caule volubili, pedunculis unifloris bractea ovata instructis, corollis adscendentibus, limbo trifido æquali. *Willd. sp. pl.* 4. *p.* 155.
A. macrophylla. *Lam. encycl.* 1. *p.* 252.
Icon. *Bot. mag.* 534. *L'Herit. stirp. t.* 7.
On the mountains: Pensylvania to Carolina. ♄. June. *v. v.* A very high running vine; leaves large, and well calculated to form shady bowers; flowers very singular in structure, yellowish-brown; the leaves are more or less pubescent.

Serpentaria. 2. A. foliis cordatis oblongis acuminatis, caule flexuoso adscendente, pedunculis radicalibus, corollæ labio lanceolato. *Willd. sp. pl.* 4. *p.* 159.
In shady woods, on fertile soil: New England to Carolina; principally throughout the mountains. ♃. May, June. *v. v.* This is the famous *Virginia Snake-root*, so very highly and, I think, deservedly esteemed by the Indians and white inhabitants of America. I have seen a very narrow and long-leaved variety of it, which, if there were any difference in the flowers, might claim to be a distinct species.

IV. *DODECANDRIA.*

680. ASARUM. *Gen. pl.* 801.

canadense. 1. A. foliis lato-reniformibus geminatis, calyce lanato profunde tripartito, laciniis sublanceolatis reflexis.—*Mich. fl. amer.* 1. *p.* 279. *Willd. sp. pl.* 2. *p.* 838.
A. carolinianum. *Walt. fl. car.* 143.
A. latifolium. *Salisb. prodr.* 344.
Icon. *Moris. hist.* 3. *s.* 13. *t.* 7. *f.* 4. *Corn. canad. t.* 25.
In shady rocky situations: Canada to Carolina. ♃. April. *v. v.* The root is highly aromatic, and known by the inhabitants under the name of *Wild Ginger*. It is said to be made use of by the Indian females to prevent impregnation.

2. A. foliis solitariis rotundato-cordatis glabris coriaceis, flore subsessili, calyce extus glabro breviter campanulato.—*Mich. fl. amer.* 1. *p.* 279. *Willd. sp. pl.* 2. *p.* 838. *virginicum.*

In shady rocky woods: Virginia and Carolina. ♃. May. *v. v.* Leaves white speckled, very smooth.

3. A. foliis subhastato-cordatis coriaceis, calyce tubuloso infra limbum brevissimo trifidum coarctato. *Mich. fl. amer.* 1. *p.* 279. *arifolium.*

A. virginicum. *Walt. fl. car.* 143.

In shady woods of Lower Carolina. ♃. May. *v. v.* Leaves speckled.

XIX. DICLINIA.

I. SEGREGATÆ.

* *Uniloculares.*

681. VALISNERIA. *Dioica.* *Masc.* *Spatha* 2-partita. *Spadix* conicus tectus flosculis. *Cal.* 3-partitus. *Stam* 2. *Fem.* *Spatha* tubulosa, 2-fida, 1-flora. *Cal.* superus, longissimus, limbo 6-partito, laciniis alternis linearibus. *Stigmata* 3. semibifida. *Caps.* cylindrica, 1-locularis, polysperma.

682. NAJAS. *Monoica.* *Masc.* *Cal* cylindricus, 2-fidus. *Stamen* 1. filamento longo, anthera 4-valvi: valvis patentibus. *Fem.* *Cal.* 0. *Styl.* 1. *Stigm.* 2. *Nux* 4-sperma.

683. DIOTIS. *Monoica* *Masc.* *Cal.* 4-phyllus. *Stam.* 4. *Fem.* *Cal.* 1-phyllus, bicornis. *Stylus* 2-partitus. *Sem.* 1. villosum, calyce bicorni tectum.

** *Tricoccæ*: *Capsula* 3-locularis, 3-sperma. *Stamina* monadelpha. *Monoica.*

684. RICINUS. *Masc.* *Cal.* 5-partitus. *Stam.* numerosa. *Fem.* *Cal.* 3-partitus. *Styli* 3. bifidi. *Caps* echinata

685. JATROPHA. *Masc.* *Cor.* 1-petala, infundibuliformis. *Stam.* 10 alterna breviora. *Fem.* *Cor.* 5-petala, patens. *Styli* 3. bifidi.

686. CROTON. *Masc.* *Cal.* cylindricus, 5-dentatus. *Cor.* 5-petala, aut 0. *Stam.* 10—15. *Fem.* *Cal.* polyphyllus. *Cor.* 0. *Styli* 3. bifidi.

687. ACALYPHA. *Cal.* 3–4-partitus, 1-bracteatus. *Masc.* *Bractea* squamiformis. *Stam* 8—16 *Fem.* *Bractea* magna cordata involucriformis. *Styli* 3. bifidi.

688. TRAGIA *Masc.* *Cal.* 3-partitus. *Stam.* 3. subsessilia. *Fem.* *Cal.* 5-partitus. *Stylus* 3-fidus.

689. EUPHORBIA. *Involucrum* commune calyciforme, limbo extrorsum appendicibus petaloideis, plerumque 5.; introrsum lacinulis totidem alternis et denticulatis. *Masc.* tot quot lacinulæ. *Cal.* polyphyllus: foliolis pinnatim laciniatis. *Stam.* 4–5. aut plura. *Flos fem.* centralis, nudus, solitarius, stipitatus. *Styli* 3. bifidi.

690. STILLINGIA. *Involucrum* coriaceum, urceolatum, in masculis multiflorum, 1-florum in femineis. *Cal.* tubulosus, infundibuliformis, limbo ciliato. *Masc. Stam.* 2. exerta, basi coalita. *Fem. Stylus* filiformis. *Stigm.* 3.

II. AMENTACEÆ.

* *Flores dioici.*

691. SALIX. *Amenta* cylindracea, imbricata: squamis 1-floris. *Cal.* 0. *Masc. Glandula* baseos nectarifera. *Stam.* 1—6. interdum monadelpha. *Fem. Styl.* bifidus. *Caps.* 1-locularis, 2-valvis, polysperma. *Sem.* papposa.

692. POPULUS. *Amenta* cylindracea, laxe imbricata: squamis margine laceris, 1-floris. *Cal.* urceolatus, integer. *Masc. Stam.* 8 exerta. *Fem. Stigma* 4-fidum. *Caps.* 2-locularis, 2-valvis, polysperma. *Sem.* papposa.

693. MYRICA. *Amenta* ovata, imbricata: squamis lunatis, trifloris. *Cal.* 0. *Masc. Squama* 4-andra, rarius 6-andra. *Fem. Styli* 2. *Drupa* 1-sperma.

** *Flores monoici.*

694. BETULA. *Amenta* imbricata: squamis peltatis, 3-floris, 3-fidis. *Masc. Cal.* 4-partitus. *Stam.* 10—12. *Fem. Squama* 2-flora. *Cal.* 0. *Stigm.* 2. *Sem.* 1. utrinque membrana alatum.

695. ALNUS. *Amentum* receptaculis cuneiformibus truncatis 3-floris compositum. *Masc. Cal.* 4-partitus. *Stam.* 4. *Fem.* squama biflora. *Cal.* 0. *Stigm.* 2. *Sem.* 1. compressum, ovatum, apterum.

696. CARPINUS. *Amenta* laxe imbricata: squamis 1-floris. *Cal.* 0. *Masc. Squama* ovata, ciliata. *Stam.* 6—10. *Antheræ* apice villosæ. *Fem. Squama* lanceolata, ciliata, biflora. *Germen* apice denticulatum. *Stigm.* 2. *Nux* ovata, sulcata.

697. OSTRYA. *Amenta* imbricata. *Masc. Cal.* squama. *Fil.* ramosa. *Fem. Amentum* nudum. *Caps.* inflatæ, imbricatæ, basi monospermæ.

698. FAGUS. *Masc. Amentum* subrotundum. *Cal.* 5-fidus, campanulatus. *Stam.* 8—12. *Fem. Cal.* 4-dentatus, setosus. *Germ.* 2. *Nuces* 2. calyce echinato, coriaceo, 4-fido inclusæ.

699. CASTANEA. *Masc. Amentum* nudum, lineare. *Cal.* sub-6-phyllus. *Stam.* 5—20. *Fem. Cal.* 5-6-phyllus, muricatus. *Germ.* 3. *Stigm.* penicilliformia. *Nuces* 3. calyce echinato inclusæ.

700. QUERCUS. *Masc. Amentum* nudum, lineare. *Cal.* sub-5-fidus. *Stam.* 4—10. *Fem. Cal.* plerumque 6-dentatus, scaber. *Styli* 2—5. *Nux* coriacea, calyce persistente basi cincta.

701. CORYLUS. *Masc. Amentum* imbricatum: squamis 3-fidis unifloris. *Cal.* 0. *Stam.* 8. *Fem. Cal.* bipartitus, lacerus. *Styli* 2. *Nux* ovata, calyce persistente cincta.

702. LIQUIDAMBAR. *Masc. Amentum* conicum, involucro 4-phyllo cinctum. *Flam.* numerosa. *Fem. Amentum* globosum, involucro 4-phyllo cinctum. *Cal.* urceolatus, biflorus. *Styli* 2. *Caps.* 2. basi cinctæ, 2-valves, polyspermæ.

703. COMPTONIA. *Masc. Amentum* cylindricum, laxe imbricatum; squamis 1-floris. *Cal.* 2-phyllus. *Filam.* 3. bifurcata. *Fem. Amentum* ovatum. *Cal.* 6-phyllus *Styli* 2. *Nux* ovata, 1-locularis.

704. PLATANUS. *Amentum* globosum. *Masc. Cor.* vix manifesta. *Antheræ* filamentum circumnatæ. *Fem. Cor.* polypetala. *Styli* stigmate recurvo. *Sem.* subrotunda, stylo mucronata, basi papposa.

705. JUGLANS. *Masc. Amentum* imbricatum. *Cal.* 6-partitus. *Filam.* 4—18. *Fem. Cal.* 4-fidus, superus. *Cor.* 4-partita. *Styli* 2. *Drupa* coriacea, nuce sulcata.

706. MORUS. *Amentum* subglobosum. *Masc. Cal.* 4-partitus. *Filam.* 4. *Fem Cal.* 4-phyllus. *Styli* 2. *Cal.* baccatus. *Sem.* 1.

III. CONIFERÆ.

* *Flores monoici.*

707. PINUS. *Masc. Amentum* imbricatum. *Cal.* 4-phyllus. *Stam.* plurima. *Anth.* nudæ. *Fem. Cal.* strobili s. coni: squama biflora. *Pistill.* 1. *Nux* ala membranacea excepta.

708. CU RESSUS *Masc. Amentum* ovatum, imbricatum: squamis (20) oppositis, apice peltatis, basi 4-andris. *Anth.* sessiles. *Fem. Conus* subrotundus: squamis (8—10) oppositis, peltatis. *Germina* sub singulis plurima minima serie simplici. *Styl.* 0. *Stigm.* cylindricum, fistulosum. *Nux* angulosa 1-sperma.

709. THUYA. *Masc. Amentum* ovatum: squamis 6. trino ordine oppositis, apice obtusis, basi 4-andris; *Anth.* substipitatæ. *Fem. Conus* subovatus: squamis oblongis apice incrassatis, longitudinaliter conniventibus. *Germina* 2. *Styl.* brevissimus. *Stigm.* concavum. *Caps.* 1-spermæ, margine alato.

** *Flores dioici.*

710. JUNIPERUS. *Amenta* ovata: squamis stipitato-peltatis. *Masc. Squamæ* ternatim verticillatæ, stipite 2–3–4-antherifero. *Fem. Squamæ* pauciores, cruciatim oppositæ. *Germ.* 1. *Styl.* 0. *Stigm.* tubulosum. *Fructus* bacciformis, carnosus. *Nux* 1-locularis.

711. TAXUS. *Gemma* polyphylla, opposite-imbricata. *Cal.* 0. *Masc. Antheræ* peltatæ, 8-fidæ. *Fem. Germ.* 1. *Styl.* 0. *Stigm.* 1. *Receptaculum* cupulæforme, nuce ovata, nuda.

712. ZAMIA. *Amentum* strobiliforme. *Masc. Squama* obovata. *Cal.* 0. *Antheræ* plures, globosæ, rima dehiscentes, in squama sessiles. *Fem. Squamæ* peltatæ. *Germ.* 2. *Styl.* 0. *Baccæ* 2. 7-spermæ.

I. *SEGREGATÆ.*

681. VALLISNERIA. *Gen. pl.* 1491.

americana. 1. V. foliis linearibus, pedunculis masculis femineisque rectis. *Willd. sp. pl.* 4. *p.* 651. *Mich. fl. amer.* 2. *p.* 220.

At the bottom of muddy and slow-flowing rivers: Mississippi and St. John's, Florida. *Michaux.* In Oswego river, New York: Delaware, Pensylvania, and James's and Greenbriar rivers, Virginia. *Ph.* ♃. ♂? Aug. Oct. *v. v.* This most interesting and singular plant I observed in the Delaware, near Philadelphia, in 1800; which discovery I communicated, accompanied with a drawing and description, to Dr. B. S. Barton, of Philadelphia. The œconomy of its fœcundation is highly interesting to the young student of the sexual system. Michaux and Willdenow consider it as specifically distinct from *V. spiralis*; but I have always considered it only a local variety, as the peduncles of the female flowers are in deep water really spiral.

682. NAJAS. *Willd. act. acad. berol.* 1798, *p.* 85.

canadensis. 1. N. pusilla, filiformis, lævis; foliis angustissime linearibus. *Mich. fl. amer.* 2. *p.* 220.

In lakes: Canada, on Lake St. John's. *Michaux.* +.

683. DIOTIS. *Gen. pl.* 1423.

lanata. 1. D. omnibus partibus cano-tomentosa; caule flexuoso, glomerulis spicarum confertissimis.

On the banks of the Missouri, in open prairies. *M. Lewis.* ♄. Aug. Sept. *v. s. in Herb. Lewis.* Resembles *Diotis ceratoides,* but is distinct at first sight by its long woolly tomentum.

684. RICINUS. *Gen. pl.* 1464.

communis. 1. R. foliis peltatis palmatis, lobis lanceolatis serratis, caule herbaceo pruinoso, stigmatibus tribus apice bifidis, capsulis echinatis. *Willd. sp. pl.* 4. *p.* 564.

Icon. *Blackw. t.* 148.

In cultivated grounds, frequent in old plantations in Virginia and Carolina. ☉. Aug. Sept. *v. v.* Introduced by the Negroes. Known by the name of *Castor-oil Bean.*

685. JATROPHA. *Gen. pl.* 1463.

1. J. herbacea, stimulis patulis horridissima; foliis subpalmato-lobatis, lobis obtusiusculis subsinuato-incisis, cymis brevi-pedunculatis. *Mich. fl. amer.* 2. *p.* 216. *stimulosa.*
J. urens. *Walt. fl. car.* 239.
Icon. *Pluk. alm. t* 220. *f.* 3. *Marcg. brass.* 79. *f.* 2.
In fields and plantations: Virginia to Florida. ♃. July, Aug. *v. v.* Flowers white; roots tuberous and eatable, the same as *J. Manihot*, which is so generally cultivated in the West Indies under the name of *Cassada.* The present plant is a very injurious weed in some parts of Carolina, as it ruins the Negroes' feet when they tread upon it; from which it is known by the name of *Tread-softly.*

686. CROTON. *Gen. pl.* 1462.

1. C. foliis ellipticis integerrimis obtusiusculis incanis subtus tomentosis petiolatis, spicis terminalibus paucifloris. *Willd sp. pl.* 4. *p.* 532. *Walt. fl. car.* 239. *maritimum.*
C. disjunctiflorum. *Mich. fl. amer.* 2. *p.* 214.
β. C. spicis dichotomalibus, flore femineo unico pedicellato. *Mich. fl. amer.* 2. *p.* 215. monanthogynum.
On the sea-coast of Carolina; β. in Tennassee, near Nashville. ♄. ♃. June, July. *v. s.* The flowers of this genus are small and inconspicuous. The branches sometimes live over winter, but it cannot be considered a real shrub. Most of the species here mentioned are covered with stellated hairs.

2. C. suffruticosum, stellato-tomentosum; foliis oblongis integerrimis subtus tomentosis petiolatis, pedunculis terminalibus subbifloris.—*Willd. sp. pl.* 4. *p.* 535. *argyranthemum.*
C. punctatum. *Jacq. ic. rar.* 3. *t.* 621.
In sterile woods of Georgia and Florida. ♄. ♃. July, Aug. *v. s.*

3. C. hispidissimum; foliis oblongis serratis subtus hirtis basi subintegerrimis biglandulosis, caule trichotomo, spicis alaribus, capsulis glomeratim sessilibus.—*Willd. sp. pl.* 4. *p.* 540. *glandulosum.*
C. scordioides. *Lam. encycl.* 2. *p.* 214.

Icon. *Jacq. ic. rar.* 1. *t.* 194.
On the sea-coast of Carolina and Florida. ⊙. July, Aug. *v. v.*

capitatum. 4. C. tomentoso-lanatum; foliis oblongo-ovalibus obtusis basi rotundatis integris, utrinque tomentosis, floribus femineis ad basin spicillæ marium capitatim congestis. —*Mich. fl. amer.* 2. *p.* 214.
In the Illinois country. *Michaux.* ⊙. +. Resembles *C. argenteum.*

687. ACALYPHA. *Gen. pl.* 1461.

virginica. 1. A. floribus femineis ad basin spicæ masculæ, involucris ovatis acuminatis dentatis, foliis breviter petiolatis oblongo-lanceolatis remote obtuse-serratis.—*Willd. sp. pl.* 4. *p.* 521.
Icon. *Pluk. phyt. t.* 99. *f.* 4.
In fields, cultivated grounds, and on road sides: Canada to Virginia. ⊙. June—Aug. *v. v.*

caroliniana. 2. A. floribus femineis ad basin spicæ masculæ, involucris cordatis dentatis, foliis longe petiolatis subrhombeo-ovatis serratis basi integerrimis.—*Willd. sp. pl.* 4. *p.* 521. *Walt. fl. car.* 238.
In cultivated grounds: Virginia to Florida. ⊙. July, Aug. *v. v.*

688. TRAGIA. *Gen. pl.* 1410.

urens. 1. T. erecta; foliis lanceolatis sessilibus obtusis apice subdentatis, cauleque ramoso pubescentibus. *Willd. sp. pl.* 4. *p.* 325.

subovalis. α. T. foliis oblongo-ovalibus nonnullis subcuneatis. *Mich. fl. amer.* 2. *p.* 175.
Icon. *Pluk. alm. t.* 107. *f.* 5.

lanceolata. β. T. foliis lanceolatis subdentatis integrisque. *Mich. l. c.*
T. innocua. *Walt. fl. car.* 229.

linearis. γ. T. foliis linearibus fere omnibus integris. *Mich. l. c.*
In waste places, on road sides and cultivated grounds: Virginia to Carolina. ⊙. June—Aug. *v. v.*

urticifolia. 2. T. erecta, caule hirsutissimo, foliis cordatis ovatis serratis.—*Willd. sp. pl.* 4. *p.* 324.
T. mercurialis. *Walt. fl. car.* 229.
In fields: Virginia to Georgia. ⊙. July. *v. s. in Herb. Lyon.*

3. T. scandens, hispida; foliis profunde cordatis ovatis acute dentatis.—*Willd. sp. pl.* 4. *p.* 323. *macrocarpa.*
In Kentucky. *Michaux.* ⊙. July. *v. s. in Herb. Lyon.*

689. EUPHORBIA. *Gen. pl.* 823.

* *Floribus fasciculato-terminalibus.*

1. E. fruticescens; foliis petiolatis ovatis subdentatis panduriformibus, summis involucellisque coloratis, floribus subumbellatis.—*Willd. sp. pl.* 2. *p.* 891. *cyathophora.*
E. heterophylla. *Jacq. collect.* 1. *p.* 157.
Icon. *Jacq. ic. rar.* 3. *t.* 480. *Murr. comm. gœt.* 7. *p.* 81. *t.* 1.
On the banks of the Mississippi, and in Georgia and Florida. ♄. ⊙. June, July. *v. v.* About three feet high; upper leaves and involucres painted deep red.

2. E. pumila, hirsuta; foliis oppositis ovalibus dentatis, flores ad summitates congestis. *Mich. fl. amer.* 2. *p.* 211. *dentata.*
In shady rocky situations: Pensylvania to Tennassee. ⊙. July, Aug. *v. v.* The upper leaves spotted.

3. E. pusilla, erecta, ramosa, pubescens; foliis sparsis linearibus integerrimis, supremis basi discoloribus.—*Mich. fl. amer.* 2. *p.* 210. *graminifolia.*
On the sea-coast of Georgia and Florida. *Michaux.* +. Resembles *E. hyssopifolia.*

** *Dichotomæ.* (Umbella bifida aut nulla.)

4. E. glabra, ramosissima, patulo-erecta; ramis divaricatis, foliis oppositis serratis ovali-oblongis subfalcatis corymbis terminalibus.—*Willd. sp. pl.* 2. *p.* 895. *hypericifolia.*
Icon. *Comm. præl.* 60. *t.* 10. *Rob. ic.* 11. *Sloan. hist. jam.* 1. *t.* 126.
On the banks of rivers and in cultivated sandy grounds: Canada to Florida. ⊙. June—Sept. *v. v.*

5. E. erecto-patula; foliis oppositis serratis oblongis pilosis, floribus axillaribus solitariis, appendicibus calycinis coloratis.—*Willd. sp. pl.* 2. *p.* 896. *maculata.*
Icon. *Jacq. hort. vind. t.* 186. *Pluk. alm. t.* 65. *f.* 8.
In cultivated grounds: Pensylvania to Carolina. ⊙. July—Sept. *v. v.* Leaves marked with a brown spot. The involucrum of the florets white.

thymifolia. 6. E. humifusa, gracilis, pubescens; foliis oppositis ovali-oblongis obtusis superne subserratis, capitulis axillaribus glomeratis subsessilibus.—*Willd. sp. pl.* 2. *p.* 898.
Icon. *Pluk. alm. t.* 113. *f.* 2. *Burm. zeyl. t.* 105. *f.* 3.
On the banks of the Ohio and Mississippi. ⊙. June—Aug. *v. v.*

polygonifolia. 7. E. glaberrima, diffusa; foliis oppositis integerrimis lineari-lanceolatis obtusis, floribus solitariis axillaribus.—*Willd. sp. pl.* 2. *p.* 900.
Icon. *Jacq. collect. suppl. t.* 13. *f.* 3.
In cultivated grounds: Canada to Virginia. ♃. June—Sept. *v. v.*

Ipecacuanhæ. 8. E. procumbens, pumila, glabra; foliis oppositis obovalibus seu lanceolatis, pedunculis axillaribus unifloris elongatis.—*Willd. sp. pl.* 2. *p.* 900.
Icon. *Bot. mag.* 1494.
In pine-barrens: New Jersey to Carolina. ♃. June, July. *v. v.* This humble species has perhaps the deepest root of any perennial I know; I frequently have dug to the depth of more than six feet, and was by appearance as far off from its end as ever.

portulaccoides. 9. E. erecta; foliis integerrimis ovalibus retusis, pedunculis axillaribus unifloris folia æquantibus.—*Willd. sp. pl.* 2. *p.* 901.
In sandy soil, and cultivated grounds: Pensylvania. ♃. June—Aug. *v. v.*

pubentissima. 10. E. erecta; caule calycibusque pubescentibus, foliis oppositis sessilibus subcordato-ovalibus obtusis, pedunculis solitariis capillaribus unifloris, appendicibus calycinis coloratis petaloideis. *Mich. fl. amer.* 2. *p.* 212.
In Carolina. *Michaux.* ♃. +

*** *Umbellatæ; involucratæ.*

Peplus. 11. E. umbella 3-fida: dichotoma, involucellis ovatis, foliis integerrimis obovatis petiolatis. *Willd. sp. pl.* 2. *p.* 903.
Icon. *Engl. bot.* 959.
In cultivated grounds: Pensylvania and Virginia. ⊙. July, Aug. *v. v.*

obtusata. 12. E. umbellata 3-fida: bis dichotoma, involucellis ovatis obtusiusculis subcordatis, foliis alternis sessilibus spathulatis involucellisque serrulatis glabris, capsulis muricatis.

In cultivated grounds: Virginia, near Staunton. ♃. July, Aug. *v. v.* Resembles *E. spathulata.*

13. E. caulibus gracile-debilibus, simpliciter 3-fidis, foliis oppositis ternisve subsessilibus ovalibus integris, pedunculis terminalibus solitariis unifloris.—*Mich. fl. amer.* 2. *p.* 212. *mercurialina.*

In shady rocky situations: Pensylvania and Kentucky. ♃. July, Aug. *v. v.* Resembles in aspect *Mercurialis annua.*

14. E. umbella 3-fida: bis dichotoma, involucro foliiforme, involucellis oblongis cordatis margine membranaceis coloratis, foliis lanceolato-oblongis subcordato-amplexicaulibus acutis glaucescentibus glabris, appendicibus calycinis petaloideis subrotundis, capsulis pilosis. *marginata.*

On the Yellow-stone river. *M. Lewis.* ☉. July. *v. s. in Herb. Lewis.* A very handsome species; the white margin of the involucre and white petal-like appendices have a fine contrast with the elegant soft green leaves.

15. E. umbella 4-fida: dichotoma, foliis oppositis lanceolatis integerrimis. *Willd. sp. pl.* 2. *p.* 906. *Lathyris.*

Icon. *Blackw. t.* 123.

Not native, but frequently found near gardens and in cultivated ground. ♂. July, Aug. *v. v.* It is generally known in America by the name of *Mole-plant*, it being supposed that no moles disturb the ground where this plant grows.

16. E. umbella 5-fida: 3-fida: dichotoma; involucellis foliisque oblongis obtusis, appendicibus calycinis petaloideis obovatis.—*Willd. sp. pl.* 2. *p.* 916. *corolluta.*

Icon. *Pluk. mant. t.* 446. *f.* 3.

In dry fields: Canada to Carolina. ♃. July, Aug. *v. v.* It is very variable in its foliage: sometimes the leaves are quite linear.

17. E. umbella 5-fida: trifida: bifida, involucris ovatis, petalis integris, foliis lanceolatis subpilosis apice serrulatis. *Willd. sp. pl.* 2. *p.* 917. *pilosa.*

Icon. *Gmel. sib.* 2. *t.* 93.

In shady wet woods, in the mountains of Maryland and Virginia. ♃. June, July. *v. v.* From two to four feet high.

690. STILLINGIA. *Gen. pl.* 1470.

sylvatica. 1. S. herbacea; foliis sessilibus oblongis obtusis basi attenuatis serrulatis, flosculis masculis squamam floralem vix superantibus.—*Willd. sp. pl.* 4. *p.* 588.

In pine-barrens: Virginia to Florida. ♃. May, June. *v. v.* Flowers yellow, in a spike, resembling a catkin.

ligustrina. 2. S. fruticosa; foliis petiolatis ovali-lanceolatis utrinque attenuatis integerrimis, flosculis masculis brevissime pedicellatis.—*Willd. sp. pl.* 4. *p.* 588.

In shady woods: Carolina and Georgia. ♄. June, July. *v. v.*

sebifera. 3. S. arborea; foliis petiolatis rhombeis acuminatis integerrimis, infra basin glandula petiolari, floribus masculis pedicellatis.—*Willd. sp. pl.* 4. *p.* 588.

Croton sebiferum. *Sp. pl.* 1425.

Icon. *Pet. gaz. t.* 54. *f.* 3. *Pluk. amalth. t.* 390. *f.* 2.

On the sea-coast of South Carolina; originally a native of China. ♄. July, Aug. *v. v.* Known by the name of *Tallow Tree.*

II. *AMENTACEÆ.*

691. SALIX. *Gen. pl.* 1493.

* *Foliis integerrimis aut obsolete serratis;* vernatio revoluta.

viminalis. 1. S. foliis lanceolato-linearibus longissimis acuminatis integerrimis subundulatis subtus sericeo-argenteis, versus marginem sparse-glandulosis, stipulis exiguis, amentis præcocibus, squamis subrotundis pilosissimis, germinibus sessilibus ovatis, stylo filiformi, stigmatibus acutis indivisis.—*Willd. sp. pl.* 4. *p.* 706.

Icon. *Hoffm. salic.* 1. *t.* 2. *f.* 1 & 2. *t.* 5. *f.* 2. *t.* 21. *f. e. f. g.*

On the banks of rivers and about plantations; introduced from Europe. ♄. April, May. *v. v.* Filaments yellow, anthers orange.

candida. 2. S. foliis lineari-lanceolatis longissimis apice obsolete denticulatis supra pubescentibus subtus niveo-tomentosis margine revolutis, stipulis lanceolatis petiolum subæ-

quantibus, amentis præcocibus cylindraceis, squamis obovato-lanceolatis longissime villosis.—*Willd. sp. pl.* 4. *p.* 708.

In dry shady woods: New York to Pensylvania. ♄. April, May. *v. v.* The native place of this willow is not mentioned by Willdenow; but a plant in the collection of G. Anderson, Esq. which was found among a promiscuous collection of willows made by me on the Catskill mountains, New York, decides the question. To this gentleman's acute observations I am indebted for the present division of Salices "*vernatio revoluta*," as likewise for the greater part of the present arrangement of American willows.

3. S. foliis lanceolatis acutiusculis subintegerrimis pubescenti-canis, subtus rugoso-venosis, margine revolutis, stipulis deciduis lanceolatis, amentis præcocibus diandris, squamis oblongis margine villosis, germinibus ovato-lanceolatis sericeo-villosis longe pedicellatis, stylo brevi, stigmatibus bifidis.—*Willd. sp pl.* 4. *p.* 692. *Muhlenbergiana.*

S. tristis. *Muhlb. in annals of bot.* 2. *p.* 58. *t.* 5. *f.* 9.

S. alpina. *Walt. fl. car.* 243.

S. flava. *Schœpf. mat. med. amer.*

In shady dry woods: New York to Virginia. ♄. April. *v. v* From three to five feet high; branches greenish-yellow, with black dots; the anthers are purple, changing to yellow when burst; scales white with a red tip, which gives the catkins a very pleasing appearance. In this and the following species I have not been able to ascertain whether the vernatio is revolute; but their natural affinity to the preceding ones strongly indicates that they are so.

4. S. foliis lineari-lanceolatis utrinque acutis integerrimis margine revolutis supra glabriusculis subtus rugoso-venosis tomentosis, stipulis nullis, amentis præcocibus oblongis.—*Willd. sp. pl.* 4. *p.* 693. *tristis.*

In dry sandy woods: New Jersey to Carolina. ♄. March, April. *v. v.; v. s. in Herb Banks.* Approaches near to the preceding.

5. S. foliis obovato-lanceolatis acutis integerrimis margine glandulosis glabris subtus glaucis, junioribus sericeis, stipulis nullis, amentis præcocibus recurvatis, squamis apice nigris, pilis longitudine germinis, germinibus ovatis brevi-pedicellatis sericeis, stylo brevissimo, stigmatibus bifidis. *recurvata.*

In shady woods, in the mountains of New Jersey and Pensylvania. ♄. April. *v. v.* A low shrub; branches brown, smooth; buds yellow.

** *Foliis integerrimis aut obsolete serratis*; vernatio equitans.

† *Caule repente, depresso aut diffuso.*

repens. 6. S. repens; foliis elliptico-lanceolatis integerrimis acutis glabris subtus subsericeis, stipulis nullis, amentis præcocibus ovatis diandris, squamis obovatis obtusis pilosis apice fuscis, germinibus ovato-oblongis pedicellatis pubescentibus, stylo brevissimo, stigmatibus bilobis, capsulis glabris.—*Willd. sp. pl.* 4. *p.* 693.

S. depressa. *Hoffm. salic.* 1. *t.* 15 & 16.

S. polymorpha. *Ehrh. frut.* 49.

In Nova Scotia and Newfoundland. ♄. May. *v. s. in Herb. Banks.* A very small creeping species.

reticulata. 7. S. repens; foliis elliptico-orbiculatis obtusis integerrimis glabris reticulato-venosis subtus glaucis, stipulis nullis, amentis serotinis pedunculatis diandris, squamis obovatis obtusis pubescentibus, germinibus ovatis sessilibus villosis, stigmatibus subsessilibus bipartitis.—*Willd. sp. pl.* 4. *p.* 685.

Icon. *Fl. dan.* 212. *Hoffm. salic.* *t.* 15. 16. 17. *Fl. lapp. t.* 8 *f.* L. & *t.* 7. *f.* 1 & 2.

In Labrador, Newfoundland, and on the north-west coast. ♄. June. *v. s. in Herb. Banks.* A very low creeping species; leaves very handsomely marked with coloured veins.

vestita. 8. S. repens; foliis suborbiculatis integerrimis supra glabris reticulato-venosis subtus villis sericeis longissimis adpressis tectis, stipulis nullis, amentis serotinis pedunculatis linearibus sericeis, germinibus ovatis sessilibus villosis, stylo profunde bipartito, stigmatibus bifidis.

In Labrador. ♄. June. *v. s. in Herb. Lambert. et Banks.* A very elegant species, resembling the preceding.

Uva ursi. 9. S. depressa; foliis spathulato-obovatis obtusis integerrimis, interne margine sparse glandulosis, glabris, supra nitidis, stipulis nullis, amentis serotinis laxis, squamis oblongis ciliatis, germinibus ovatis pedicellatis glabris, stylo bpartito, stigmatibus bilobis.

In Labrador. ♄. April, May. *v. v. in Hort. Anderson.*

For this beautiful little species I am indebted to G. Anderson, Esq.; it has all the appearance of *Arbutus Uva ursi* in habit, as well as in the form of its leaves.

10. S. depressa; foliis ovalibus subacutis basi cordatis integerrimis reticulato-venosis supra glabris, subtus pallidis nervo margineque pilosis, stipulis semicordatis. *cordifolia.*

In Labrador. ♄. *v. v. s. fl. in Hort. Anderson.* In general habit it resembles *S. myrsinites.*

11. S. diffusa; foliis obovatis obtusis integerrimis supra glabris, subtus sericeo-villosis, stipulis nullis, amentis subcoætaneis sessilibus oblongis 2-andris, squamis obovatis apice nigris pilosis. *obovata.*

In Labrador. ♄. *Colmaster.* North-west coast. *Nelson.* ♄. May. *v. s. in Herb. Dickson. et Banks.* This species is allied to *S. Arenaria* Linn. and is more inclined to be upright than the preceding.

12. S. erectiuscula, divaricata; ramulis lævigatis, foliis oblongo-lanceolatis utrinque acutis medio serrulatis glaberrimis patentibus planis discoloribus, stipulis nullis. *planifolia.*

In Labrador. ♄. *v. v. s. fl. in Hort. Anderson.* This singular species distinguishes itself at first sight by its remarkable plain and patent leaves; it is inclined to rise from the ground on a single low stem, and approaches to the following division.

†† *Caule erecto.*

13. S. ramulis lævigatis, foliis obovato-lanceolatis acutis integerrimis utrinque glabris concoloribus, stipulis nullis, amentis coætaneis pedunculatis glaberrimis, squamis oblongis pedicello duplo brevioribus vix pilosis, germinibus ovato-oblongis longissime pedicellatis glabris, stigmatibus sessilibus bifidis. *pedicellaris.*

S. pensylvanica. *Hortul.*

On the Catskill mountains, New York. ♄. April. *v. v.* This elegant and singular species flowered in the garden of G. Anderson, Esq., from a plant brought by me from America. He has one through another channel, which appears to be the male to this species.

14. S. foliis suboppositis obovato-lanceolatis acutis glabris apice subserratis discoloribus, stipulis nullis, amentis præcocibus, squamis orbiculatis nigris, filamento unico, anthera geminata, germinibus sessilibus ovato-ellipticis sericeis, stylo brevissimo, stigmatibus ovatis emarginatis.—*Willd. sp. pl.* 4. *p.* 673. *Lambertiana.*

Icon. *Engl. bot.* 1359.

On the banks of rivers and in willow grounds; introduced from Europe. ♄. March, April. *v. v.* It is cultivated on account of its exceeding tough branches for the use of making baskets.

rosmarinifolia. 15. S. foliis strictis lineari-lanceolatis utrinque acutis integerrimis margine subglandulosis supra deciduo-pubescentibus, subtus sericeis, stipulis exiguis lanceolatis erectis, amentis præcocibus ovatis recurvatis, squamis oblongis obtusis ciliatis, germinibus pedicellatis lanceolatis villosis, stigmatibus subsessilibus bifidis.—*Willd. sp. pl.* 4. *p.* 679.

Icon. *Engl. bot.* 1365.

In wet meadows and mountain swamps: Pensylvania to Carolina. ♄. March, April. *v. v.* Not above three feet high. This species, though mentioned as a British plant in the Flora Britannica, is decidedly of American origin; as both sexes have been introduced from that country by G. Anderson, Esq. It has a great resemblance in general character to *S. recurvata,* but the *vernatio equitans* removes them far from one another.

fuscata. 16. S. foliis obovato-lanceolatis acutis glabris subserratis subtus glaucis, junioribus pubescentibus, stipulis exiguis, amentis præcocibus nutantibus, squamis obtusis intus vix pilosis, germinibus brevi-pedicellatis ovatis sericeis, stigmatibus sessilibus bilobis.

In low overflowed grounds, on the banks of rivers: New York to Pensylvania. ♄. March, April. *v. v.* Branches of the preceding year covered with a dark brown or black tomentum.

*** *Foliis remote obtuseque serratis.*

conifera. 17. S. foliis oblongo-lanceolatis remote serratis acutis supra glabris subtus planis tomentosis, annotinis glabris, stipulis lunatis subdentatis, amentis præcocibus diandris, squamis lanceolatis obtusis villosis, germinibus pedicellatis lanceolatis sericeis, stylo bifido, stigmatibus bilobis.—*Willd. sp. pl.* 4. *p.* 705.

S. longirostris. *Mich. fl. amer.* 2. *p.* 226.

Icon. *Wangh. amer. t.* 31. *f.* 72.

In shady woods on gravelly dry soil: New York to Carolina. ♄. April. *v. v.* The cone-like excrescence at the end of the branches, occasioned by an insect, is not unfrequently found on other species belonging

to the present division, but particularly on *S. prinoides*.

18. S. foliis oblongo-lanceolatis acutis basi biglandulosis obtuse serratis glabris subtus glaucis, stipulis ovatis acutis glanduloso-serratis, amentis coætaneis villosis basi foliosis, squamis lanceolatis obtusis villosis atris, germinibus longe pedicellatis lanceolatis glabris, stylo bifido, stigmatibus bifidis.—*Willd. sp. pl.* 4. *p.* 666. *myricoides.*

Icon. *Muhlb. in annals of bot.* 2. *t.* 5. *f.* 2.

In wet meadows and woods: New England to Virginia. ♄. April. *v. v.* Branches green; younger ones purple, smooth.

19. S. foliis ovali-oblongis acutis remote undulato-serratis glabris subtus glaucis, stipulis semicordatis inciso-dentatis, amentis præcocibus villosis, germinibus pedicellatis ovatis acuminatis sericeis, stylo longo, stigmatibus bifidis. *prinoides.*

On the banks of rivers: Pensylvania to Virginia. ♄. March, April. *v. v.* Middle-sized; resembles *S. discolor.*

20. S. foliis oblongis obtusiusculis glabris remote-serratis apice integerrimis subtus glaucis, stipulis deciduis lanceolatis serratis, amentis subcoætaneis diandris oblongis tomentosis, squamis oblongis acutis atris pilosis, germinibus subsessilibus lanceolatis tomentosis, stylo mediocri, stigmatibus bipartitis.—*Willd. sp. pl.* 4. *p.* 665. *discolor.*

Icon. *Muhlb. in annals of bot.* 2. *t.* 5. *f.* 1.

In low grounds and on the banks of rivers; common: New England to Carolina. ♄. April. *v. v.* Branches dark brown; filaments white; anthers red, yellow when burst. This is the most common in use for basket-making.

21. S. foliis lanceolatis acutis longissimis basi sensim attenuatis serrulatis glaberrimis subconcoloribus, stipulis semicordatis, amentis præcocibus erectis glabriusculis, germinibus pedicellatis ovatis glabris, stylo bifido, stigmatibus 2-lobis. *angustata.*

In shady woods on the banks of rivers: New York and Pensylvania. ♄. March, April. *v. v.* Leaves very long; resembles *S. prinoides.*

22. S. foliis linearibus utrinque acuminatis elongatis remotissime denticulatis glabris concoloribus, stipulis exiguis lanceolatis denticulatis, amentis serotinis pedun- *longifolia.*

culatis tomentosis diandris, squamis planis retusis, filamentis basi barbatis squama duplo longioribus.—*Willd. sp. pl.* 4. *p.* 670.

Icon. *Muhlb. in annals of bot.* 2. *t.* 5. *f.* 6.

On the banks of the Susquehannah. *Muhlenberg.* ♄. July. +. Not above two feet high; branches brown; branchlets white.

**** *Foliis dense acuteque serratis.*

† *Triandræ.* (Filamentis 3—6.)

babylonica. 23. S. ramis pendulis, foliis lanceolatis acuminatis serratis glabris discoloribus, stipulis exiguis subrotundis, amentis coætaneis, germinibus sessilibus ovatis glabris.—*Willd. sp. pl.* 4. *p.* 671.

On road sides and about plantations; introduced from Europe. ♄. May. *v. v.* The *Weeping Willow* is now almost naturalized, being every where planted for ornament.

Houstoniana. 24. S. foliis lineari-lanceolatis acutis tenuissime serratis utrinque glabris nitidis concoloribus, stipulis nullis, amentis coætaneis cylindricis villosis, squamis ovatis acutis, filamentis 3—5. usque ad medium barbatis.

S. tristis. *Hortul.*

In Virginia and Carolina. ♄. *v. v. s. fl.*; *v. s. c. fl. in Herb. Banks specimen Houstonianum.* This species, so frequently found in the gardens under the name of *S. tristis*, is very far from being in any way related to it. The specimen in the Banksian Herbarium was collected by Houston, and, as it is said, in Vera Cruz. But I am confident it is a more northern plant, as I frequently have seen it in Virginia. The branches are extremely brittle at their base.

falcata. 25. S. foliis longissimis lineari-lanceolatis superne sensim attenuatis subfalcatis basi acutis approximato-serratis utrinque glabris, junioribus sericeis, stipulis lunatis dentatis deflexis.

On the banks of rivers: Pensylvania to Virginia. ♄. *v. v. s. fl.* A very smooth species; branches very slender and brown.

nigra. 26. S. foliis lanceolatis utrinque acutis serrulatis concoloribus glabris petiolis et nervo medio supra tomentosis, stipulis exiguis dentatis, amentis coætaneis erectis cylindricis villosis, squamis oblongis villosissimis, filamentis 3—6. basi barbatis, germinibus pedicellatis ovatis gla-

bris, stylo brevissimo; stigmatibus bifidis.—*Willd. sp. pl.* 4. *p.* 657. *Marsh. arb.* 293.
S. caroliniana. *Mich. fl. amer.* 2. *p.* 226.
S. pentandra. *Walt. fl. car.* 243.
S. vulgaris. *Clayt. fl. virg.*
Icon. *Mich. arb.* 3. *t.* .... *Muhlb. in annals of bot.* 2. *t.* 5. *f.* 5.
On the banks of rivers: Pensylvania and Virginia. ♄. May. *v. v.* A tree about twenty feet high; branches smooth, very brittle at the base.

27. S. foliis ovato-oblongis cuspidato-acuminatis basi rotundatis serratis glandulosis utrinque glabris nitidis, stipulis oblongis glanduloso-serratis, amentis coætaneis sub-3-andris, squamis lanceolatis obtusis basi pilosis apice serratis glabris, germinibus lanceolato-subulatis glabris, stylo bifido, stigmatibus obtusis.—*Willd. sp. pl.* 4. *p.* 667. *lucida.*
Icon. *Muhlb. in annals of bot.* 2. *t.* 5. *f.* 7. *Mich. arb.* 3. *t.* ....
In low grounds, about springs: New York to Virginia. ♄. May. *v. v.* A very smooth and handsome species; branches yellowish brown; sometimes it grows to the size of a tree, but more generally it is only a shrub. It approaches to *S. amygdalina* of Europe.

28. S. foliis oblongo-lanceolatis acuminatis basi subcordatis rigidis glabris argute serratis, serratura infima elongata, petiolis villosis, stipulis amplis cordatis obtusis glanduloso-serratis, amentis coætaneis sub-3-andris, squamis lanceolatis atris lanatis, germinibus longe pedicellatis lanceolatis glabris, stylo brevissimo, stigmatibus bipartitis.—*Willd. sp. pl.* 4. *p.* 667. *rigida.*
S. cordata. *Mich. fl. amer.* 2. *p.* 225.
S. cordifolia. *Herb. Banks. mss.*
Icon. *Muhlb. in annals of bot.* 2. *t.* 5. *f.* 4.
In swamps and hedges: New England to Virginia. ♄. April, May. *v. v.* Branches green, red towards the end, younger ones pubescent. It is very tough, and much in use by the basket-makers.

29. S. foliis oblongo-lanceolatis acuminatis basi cordatis argute serratis glabris subtus pallidioribus, stipulis amplis ovato-subrotundis cartilagineo-serratis, amentis coætaneis sub-3-andris, squamis lanceolatis lanatis atris, germinibus pedicellatis lanceolatis glabris, stylo *cordata.*

brevissimo, stigmatibus bifidis.—*Willd. sp. pl.* 4. *p.* 666.

Icon. *Muhlb. in annals of bot.* 2. *t.* 5. *f.* 8.

In low and swampy grounds, on the banks of rivers: New York to Virginia. ♄. April, May. *v. v.* A very elegant species, about six or eight feet high.

†† *Diandræ.*

grisea. 30. S. foliis lanceolatis acuminatis serrulatis supra glabris nervo medio tomentosis subtus sericeis nudisve, stipulis linearibus deflexis deciduis, amentis præcocibus, squamis oblongis pilosis apice atris, germinibus oblongis pedicellatis sericeis, stigmatibus sessilibus obtusis.—*Willd. sp. pl.* 4. *p.* 699.

S. sericea. *Muhlb. in annals of bot.* 2. *t.* 5. *f.* 8. *Marsh. arb.*

In low overflowed grounds: Pensylvania to Virginia. ♄. April. *v. v.* About eight feet high; branches greenish-purple, very brittle at the base.

petiolaris. 31. S. foliis lanceolatis undique serratis glabris subtus glaucis sericeis basi plerumque inæqualibus, stipulis lunatis dentatis exiguis, amentis præcocibus laxis, squamis obovatis obtusis nigris pilosis, germinibus longe pedicellatis ovatis sericeis, stigmatibus sessilibus bilobis.—*Willd. sp. pl.* 4. *p.* 665.

S. pensylvanica. *Hortul.*

Icon. *Engl. bot.* 1147.

In swamps and on the banks of rivers; common. ♄. April. *v. v.*; *v. s. in Herb. Lambert. et Anderson.* Branches slender, smooth, dark brown. It has been by mistake adopted as a native of Great Britain.

alba. 32. S. foliis lanceolatis acuminatis serratis utrinque sericeis, serraturis infimis glandulosis, stipulis obsoletis, amentis coætaneis elongatis, squamis elliptico-lanceolatis concoloribus pubescentibus, germinibus subsessilibus ovato-oblongis denique glabratis, stylo brevi, stigmatibus bipartitis crassis.—*Willd. sp. pl.* 4. *p.* 710.

Icon. *Hoffm. salic.* 1. *t.* 7. & 8. & *t.* 24. *f.* 3.

On road sides and river banks; introduced from Europe. ♄. April, May. *v. v.* A tall tree.

vitellina. 33. S. foliis lanceolatis acuminatis crebro-serratis supra glabris subtus discoloribus subsericeis, stipulis nullis, amentis subcoætaneis cylindricis, squamis ovato-lan-

ceolatis concoloribus extus pubescentibus, germinibus sessilibus ovato-lanceolatis glabris, stigmatibus subsessilibus bilobis.—*Willd. sp. pl.* 4. *p.* 668.

Icon. *Hoffm. salic.* 1. *t.* 11. & 12. & *t.* 24. *f.* 1. *Engl. bot.* 1050.

On road sides and about plantations; common. Introduced from Europe. ♄. May. *v. v.* A middle-sized tree.

34. S. foliis lanceolatis acuminatis concoloribus glabris glanduloso-serratis, amentis coætaneis, nectario gemino majusculo: lobis lanceolatis difformibus apice dentatis glabris, flosculis terminalibus 3-andris. *ambigua.*

In low grounds: New York and New Jersey. ♄. April. *v. v.* Resembles in leaves and habit the preceding, and in fructification the following.

35. S. foliis lanceolatis acuminatis undique serratis glaberrimis concoloribus, petiolis dentato-glandulosis, stipulis rotundatis, amentis subcoætaneis, squamis obovatis villosis, nectario masculorum gemino, germinibus subsessilibus lanceolatis glabris, stigmatibus sessilibus bipartitis.—*Hoffm. salic.* 2. *t.* 31. *Engl. bot.* 1937. *decipiens.*

On road sides and about plantations. Introduced from Europe. ♄. April, May. *v. v.* A tall tree; branches very brittle.

36. S. foliis elliptico-ovatis undique serrulatis utrinque glabris nitidis concoloribus, stipulis lanceolatis serratis, ramulis hirtis, amentis subpræcocibus erectis cylindricis, squamis lanceolato-oblongis longe villosis, germinibus ovato-lanceolatis sessilibus sericeis, stigmatibus subsessilibus bifidis.—*Willd. sp. pl.* 4. *p.* 678. *myrsinites.*

Icon. *Fl. lapp. t.* 8. *f.* f. *t.* 7. *f.* 6. *Fl. dan.* 1054. *Hoffm. salic. t.* 18.

In Labrador. ♄. May. *v. v. in Hort. Anderson.*; *v. s. in Herb. Lambert.* A small straggling bush, not above a foot high; branches purplish-yellow.

37. S. foliis orbiculatis subretusis serratis utrinque glabris nitidis, stipulis nullis, amentis serotinis paucifloris, squamis obovatis obtusis villosis, germinibus oblongo-ovatis subsessilibus glabris, stigmatibus brevissimis subsessilibus.—*Willd. sp. pl.* 4. *p.* 682. *herbacea.*

Icon. *Fl. dan.* 117. *Hoffm. salic.* 1. *t.* 20. *Fl. lapp. t.* 8. *f.* h. *t.* 7. *f.* 3. & 4.

On the north-west coast. *D. Nelson.* ♄. June, July.

v. s. in Herb. Banks. The smallest of all the known species; the stems not above an inch high.

692. POPULUS. *Gen. pl.* 1531.

balsamifera. 1. P. foliis ovatis acuminatis adpresso-serratis subtus albidis reticulato-venosis, gemmis resinosis. *Willd. sp. pl.* 4. *p.* 805.

Icon. *Mich. arb.* 3. *p.* 306. *t.* 13. *f.* 1. *Duham. arb. ed. nov.* 2. *t.* 50. *Pall. fl. ross.* 1. *t.* 41. *Wangh. amer. t.* 28. *f.* 59. *Trew ehret. t.* 46. *bona.*

In Canada, particularly plenty about Hudson's Bay. ♄. March. *v. v.* From seventy to eighty feet high; the young buds are covered with a very odoriferous balsam, from which it is called *Balsam Poplar*; the natives call it *Tacamahac.*

candicans. 2. P. foliis cordatis ovatis acuminatis obtuse inæqualiter serratis subtus albidis subtriplinervibus reticulato-venosis, petiolis hirsutis, gemmis resinosis, ramis teretibus.—*Willd. sp. pl.* 4. *p.* 806.

P. latifolia. *Mœnch. method. p.* 338.

P. canadensis. *Mœnch. weissenst.* 81.

Icon. *Catesb. car.* 1. *t.* 34.

In New England. ♄. March. *v. v.* From forty to fifty feet high; the buds are strongly covered with a balsamic fluid.

trepida. 3. P. foliis suborbiculatis abrupte acuminatis dentatis basi supra biglandulosis glabris, junioribus sericeis.—*Willd. sp. pl.* 4. *p.* 803.

P. tremuloides. *Mich. fl. amer.* 2. *p.* 243.

Icon. *Mich. arb.* 3. *p.* 285. *t.* 8. *f.* 1. *Duham. arb. ed. nov.* 2. *t.* 53.

In extensive swamps: Canada to Pensylvania. ♄. April. *v. v.* From twenty to thirty feet high. Generally known by the name of *American Aspen Tree.*

monilifera. 4. P. foliis subcordato-deltoidibus glabris basi glandulosis, serraturis cartilagineis hamatis pilosiusculis, nervis patulis, petiolis superne compressis, ramis adultis teretibus.—*Willd. sp. pl.* 4. *p.* 805.

P. glandulosa. *Mœnch. method. p.* 339.

P. caroliniensis. *Mœnch. weissenst.* 81.

Icon. *Mich. arb. p.* 295. *t.* 10. *f.* 2.

In North America. ♄. April. *v. v. in Hortis.* From sixty to seventy feet high. Michaux says that it has

not been observed in any part of North America growing wild.

5. P. foliis rhomboideis promisse acuminatis circumcirca dentatis glabris, ramulis junioribus pilosis. *betulifolia.*

P. hudsonica. *Mich. arb.* 3. *p.* 293. *t.* 10. *f.* 1.

P. nigra. *Mich. fl. amer.* 2. *p.* 244.

On the Hudson- or North-river, and about Lake Ontario. ♄. March. *v. v.* From thirty to forty feet high; petioles and young branches yellow.

6. P. foliis subrotundo-ovatis acutis inæqualiter sinuato-grandi-dentatis glabris, junioribus villosis, petiolis superne compressis.—*Mich. fl. amer.* 2. *p.* 243. *grandidentata.*

In Canada. ♄. April. *v. v.* From forty to fifty feet high.

7. P. foliis subrotundo-ovatis deltoideis acuminatis subcordatis inæqualiter serratis glabris basi glandulosis, petiolis compressis, ramis junioribus angulatis.—*Willd. sp. pl.* 4. *p.* 803. *lævigata.*

P. canadensis. *Mich. arb.* 3. *p.* 298. *t.* 11.

In high rocky situations: Canada to Virginia, and about the Western lakes. ♄. March. *v. v.* From seventy to eighty feet high. In Virginia it is called *Cotton Tree.*

8. P. foliis ovato-deltoideis acuminatis obtuse uncinato-dentatis glabris, junioribus amplissimis cordatis, ramis alato-angulosis.—*Willd. sp. pl.* 4. *p.* 805. *angulata.*

P. heterophylla. *Du Roi harbk.* 2. *p.* 150.

P. basamifera. *Mill. dict. n.* 5.

Icon. *Mich. arb.* 3. *p.* 302. *t.* 12.

In morasses, on the banks of rivers: Virginia to Florida, and on the Mississippi. ♄. April. *v. v.* About eighty feet high; leaves very large; branches brittle. It is known by the name of *Mississippi Cotton Tree.*

9. P. foliis subrotundo-ovatis sinu parvo cordatis subauriculatis obtusis uncinato-dentatis, junioribus tomentosis. *Willd. sp. pl.* 4. *p.* 806. *heterophylla.*

Icon. *Mich. arb.* 3. *p.* 290. *t.* 9. *Duham. arb. ed. nov.* 2. *t.* 51.

In swamps: New York to Carolina, and on the western rivers. ♄. May. *v. v.* About seventy or eighty feet high. The leaves are on their base, properly speaking, more auriculated than cordated.

693. MYRICA. *Gen. pl.* 1510.

Gale. 1. M. foliis cuneato-lanceolatis apice serratis obtusis, amentis masculis imbricatis, squamis acuminatis ciliatis, fructibus squamoso-capitatis.—*Willd. sp. pl.* 4. *p.* 745.
Icon. *Fl. dan.* 327.
In boggy grounds in Canada, and about lakes on high mountains; plentifully on the Broad mountains, Pensylvania. ♄. May. *v. v.* A low shrub, like all the following, of an agreeable sweet scent.

cerifera. 2. M. foliis cuneato-lanceolatis apice rariter serratis acutis, amentis masculis laxis, squamis acutis, fructibus globosis minoribus.—*Willd. sp. pl.* 4. *p.* 745.
Icon. *Catesb. car.* 1. *t.* 69. *Pluk. alm. t.* 48. *f.* 9.

pumila. β. M. foliis lineari-lanceolatis. *Mich. fl. amer.* 2. *p.* 228.
In shady dry woods: Virginia to Carolina. β. In Carolina and Florida. ♄. May, June. *v. v.* A shrub sometimes more than twelve feet high. The berries of this and the following species produce a white vegetable wax, which the inhabitants manufacture into candles equal to those made of bees-wax.

caroliniensis. 3. M. foliis cuneato-oblongis grosse dentatis, amentis masculis laxis, squamis acutis, baccis globosis majoribus.—*Willd. sp. pl.* 4. *p.* 746.
M. cerifera β. *Mich. fl. amer.* 2. *p.* 228.
Icon. *Catesb. car.* 1. *p.* 13.
In wet places about rivers and swamps: New England to Florida. ♄. May. *v. v.* Not above three or four feet high.

pensylvanica. 4. M. foliis oblongis utrinque acutiusculis integerrimis aut apice rariter subserratis margine revolutis, amentis masculis laxis, squamis acutis, baccis globosis majusculis.—*Lam. encycl.* 2. *p.* 592.
Icon. *Duham. arb. ed. nov.* 2. *t.* 55.
In shady rocky situations: New Jersey and Pensylvania. ♄. May. *v. v.* Not above three feet high. It generally is confounded with the preceding, but is a very distinct species.

694. BETULA. *Gen. pl.* 1419.

populifolia. 1. B. foliis deltoidibus longe acuminatis inæqualiter serratis glaberrimis, strobilorum squamis lobis lateralibus subrotundis, petiolis glabris. *Willd. sp. pl.* 4. *p.* 463.

B. acuminata. *Ehrh. beitr.* 6. *p.* 98.
B. lenta. *Du Roi harbk.* 1. *p.* 92. *Wangh. amer. p.* 45. *t.* 29. *f.* 38.
Icon. *Mich. arb.* 2. *p.* 139. *t.* 2. *Willd. arb. t.* 2. *f.* 5.
In barren rocky woods and old fields: Canada to Pensylvania. ♄. June, July. *v. v.* From thirty to forty feet high. It is known by the name of *White Birch* or *Old Field Birch.*

2. B. foliis ovatis acutis serratis, petiolis pubescentibus pedunculo brevioribus, strobilorum squamis lobis lateralibus rotundatis. *Willd. sp. pl.* 4. *p.* 463. *excelsa.*
B. lutea. *Mich. arb.* 2. *p.* 152.
Icon. *Mich. l. c. t.* 5. *Willd. arb. t.* 2. *f.* 2.
In low grounds: province of Maine, Hudson's river. ♄. May, June. *v. v.* From seventy to eighty feet high; generally called *Yellow Birch.*

3. B. foliis rhombeo-ovatis duplicato-serratis acutis subtus pubescentibus, basi integris, amentis femineis ovatis, squamis villosis, laciniis linearibus æqualibus.—*Willd. sp. pl.* 4. *p.* 464. *nigra.*
B. lanulosa. *Mich. fl. amer.* 2. *p.* 181.
B. rubra. *Mich. arb.* 2. *p.* 142.
Icon. *Mich. l. c. t.* 3. *Willd. arb. t.* 2. *f.* 6.
On the banks of rivers: New Jersey to Carolina. ♄. May. *v. v.* About seventy feet high when full grown; the wood very fine. It is generally called *Red Birch.*

4. B. foliis ovatis acuminatis duplicato-serratis, venis subtus hirsutis, petiolo glabro, amentis femineis pedunculatis nutantibus, squamis lobis lateralibus brevibus suborbiculatis.—*Willd. sp. pl.* 4. *p.* 464. *papyracea.*
B. papyrifera. *Mich. fl. amer.* 2. *p.* 180.
Icon. *Mich. arb.* 2. *p.* 133. *t.* 1. *Willd. arb. t.* 2. *f.* 1.
In the forests of Canada to a great northern latitude, and as far south as the Hudson's river. ♄. May, June. *v. v.* A large tree, highly useful to the natives for constructing their large portable canoes, from which circumstance it is known by the name of *Canoe Birch.*

5. B. foliis cordato-ovatis argute serratis acuminatis, nervis subtus petiolisque pilosis, strobilorum squamis glabris, lobis obtusis æqualibus elevato-venosis.—*Willd. sp. pl.* 4. 464. *lenta.*
B. carpinifolia. *Ehrh. beitr.* 6. *p.* 99.

B. nigra. *Du Roi harbk.* 1. *p.* 93. *Wangh. amer. t.* 15. *f.* 34.

Icon. *Mich. arb.* 2. *p.* 145. *t.* 4.

In Canada and throughout the Allegany mountains, to their termination in Georgia. ♄. May, June. *v. v.* This elegant and large tree is the most interesting of this genus, on account of the excellence of its wood. It is known by the name of *Mountain Mahogany, Black Birch, Cherry Birch,* and *Sweet Birch.* This last appellation it has from the sweet scent the branchlets give when bruised.

pumila. 6. B. ramis pubescentibus impunctatis, foliis orbiculato-obovatis petiolatis subtus dense pubescentibus, amentis femineis cylindricis.—*Willd. sp. pl.* 4. *p.* 467.

B. nana. *Kalm itin.* 2. *p.* 263.

Icon. *Jacq. hort. vind. t* 122. *Du Roi harbk.* 1. *t.* 3. *Wangh. amer. t.* 29. *f.* 61.

In bogs of Canada, and on high mountains of New York and Pensylvania. ♄. May, June. *v. v.* A low shrub, not above two or three feet high.

glandulosa. 7. B. ramis glanduloso-punctatis glabris, foliis obovatis serratis basi integerrimis glabris subsessilibus, amentis femineis oblongis, squamis semitrifidis, seminibus orbiculatis angusto-marginatis.—*Willd. sp. pl.* 4. *p.* 466.

In Canada, about Hudson's Bay, and on the borders of lakes on the high mountains of New Jersey and Pensylvania. ♄. May. *v. v.* A handsome little shrub, not above two feet high.

nana. 8. B. humillima, glaberrima; foliis orbiculatis crenatis subtus reticulato-venosis, amenti squamis profunde 3-partitis, laciniis oblongis, seminibus orbiculatis subapteris.—*Willd. sp. pl.* 4. *p.* 465.

Icon. *Amœn. acad.* 1. *t.* 1. *Fl. dan.* 91. *Pall. fl. ross.* 1. *t.* 40. *Amman. act.* 9. *t.* 14.

In sphagnous swamps about Hudson's Bay and other parts of Canada. ♄. April, May. *v. s. in Herb. Lambert.*

695. ALNUS. *Willd. sp. pl.* 4. *p.* 334.

Betula. *Gen. pl.* 1419.

glutinosa. 1. A. foliis subrotundo-cuneatis obtusis subretusis glutinosis, axillis venarum subtus villosis. *Willd. sp. pl.* 4. *p.* 334.

Betula Alnus. *Sp. pl.* 1394.
Icon. *Engl. bot.* 1508. *Læs. pruss. t.* 1.
On the banks of rivers, in the interior of Canada, and on the north-west coast. ♄. April. *v. v.* A large tree, known every where under the name of *Alder*.

2. A. foliis oblongis acutis basi rotundatis duplicato-serratis, petiolis venisque subtus pilosis, axillis venarum nudis, stipulis ovato-oblongis. *crispa*
A. undulata. *Willd. sp. pl.* 4. *p.* 336.
Betula Alnus crispa. *Mich. fl. amer.* 2. *p.* 181.
Betula crispa. *Ait. kew.* 3. *p.* 339.
In Canada and on high mountains, in sphagnous swamps, of Pensylvania. ♄. April. *v. v.* A shrub not above three or four feet high.

3. A. foliis obovatis acuminatis venis et axillis venarum subtus pilosis, stipulis ellipticis obtusis. *Willd. sp. pl.* 4. *p.* 336. *serrulata.*
Betula serrulata. *Ait. kew.* 3. *p.* 338.
Betula rugosa. *Ehrh. beitr.* 3. *p.* 21.
Icon. *Abbot. insect.* 2. *t.* 92. *Wangh. amer.*
In swamps and on river sides; common every where. ♄. March. *v. v.* A shrub from six to ten feet high, growing in close thickets.

696. CARPINUS. *Gen. pl.* 1449.

1. C. foliis oblongo-ovatis acuminatis inæqualiter serratis, strobilorum squamis tripartitis, lacinia intermedia obliqua ovato-lanceolata uno latere dentata.—*Willd. sp. pl.* 4. *p.* 468. *americana.*
C. virginiana. *Mich arb.* 3. *t.* 8.
In shady woods and hedges: Canada to Florida. ♄. May. *v. v.* This species of *Hornbeam* resembles the European very much, and its wood is of the same qualities: it rises to about fifteen feet high.

697. OSTRYA. *Mich. gen.* 223.

1. O. foliis ovato-oblongis basi subcordatis acuminatis inæqualiter serratis, strobilis oblongo-ovatis erectis, geminis acutis.—*Willd. sp. pl.* 4. *p.* 469. *virginica.*
Carpinus virginiana. *Ait. kew.* 3. *p.* 363.
Icon. *Abbot. insect.* 2. *p.* 151. *t.* 75. *Pluk. alm. t.* 156. *f.* 1.
In shady woods: New England to Carolina. ♄. May.

v. v. A small tree, of exceeding hard and heavy wood, from which it is generally known under the name of *Iron-wood*; in some parts they call it *Lever-wood.* I observed a variety in Pensylvania, of which the younger branches were covered with glandulous hairs. It is rather singular to observe that the plate in *Mich. arb.* 3. *t.* 7. intended for the present plant, represents *Ostrya vulgaris* with hanging cones, which is never the case in the American species.

698. FAGUS. *Gen. pl.* 1448.

sylvatica. 1. F. foliis ovatis acuminatis leviter dentatis margine ciliatis basi acutis, nucibus ovato-triquetris obtusis cum mucrone.—*Willd. sp. pl.* 4. *p.* 459. *Mich. arb.* 2. *p.* 170.

Icon. *Mich. l. c. t.* 8.

In extensive forests: New Hampshire to Georgia. ♄. May. *v. v.* This species of beech forms those extensive and beautiful woods generally known by the name of *Beech-woods,* and always gives the indication of a fertile soil. It is distinguished by the name of *White Beech* from the following.

ferruginea. 2. F. foliis ovato-oblongis acuminatis subtus pubescentibus grosse dentatis basi obtusis subcordato-inæqualibus, nucibus acute ovato-triquetris acutissimis.—*Willd. sp. pl.* 4. *p.* 460.

Icon. *Mich. arb.* 2. *p.* 174. *t.* 9. *Abbot. insect.* 2. *t.* 75.

In rich level lands, at the foot of mountains: Canada to New England. ♄. May, June. *v. v.* It is distinguished by the inhabitants by the name of *Red Beech*, the wood being of a darker colour than the preceding. Both species are highly useful timber trees.

699. CASTANEA. *Tournef. inst. t.* 352.

vesca: americana. 1. C. foliis lanceolatis acuminatis mucronato-serratis utrinque glabris.—*Willd. sp. pl.* 4. *p.* 460.

Fagus Castanea. *Hort. cliff.* 447.

Icon. *Mich. arb.* 2. *p.* 156. *t.* 6.

In the mountainous parts: New England to Carolina. ♄. May, June. *v. v.* The *American Chesnut* differs so little from the European, that no specific distinction can be drawn. It is one of the largest and

most useful trees of the forests, the wood being extremely durable, and in high esteem for posts and rails to construct fences. The nuts are very delicious.

2. C. foliis oblongis acutis mucronato-serratis subtus albo-tomentosis.—*Willd. sp. pl.* 4. *p.* 461. *pumila.*

Fagus pumila. *Sp. pl.* 1418.

Icon. *Mich. arb.* 2. *p.* 166. *t.* 7. *Wangh. amer. t.* 19. *f.* 44. *Abbot. insect. t.* 57. *Catesb. car.* 1. *t.* 9. *Pluk. alm. t.* 156. *f.* 2.

In dry barren and sandy fields and woods: New Jersey to Georgia. ♄. May, June. *v. v.* This small tree, or rather shrub, grows to the height of thirty feet and upwards in the southern regions, but to the north it seldom exceeds seven or eight feet. The fruit is very sweet and agreeable to eat, and is generally known by the name of *Chinquapin.*

700. QUERCUS. *Gen. pl.* 1446.

* *Fructificatio biennis; fructibus subsessilibus; foliis setaceo-mucronatis.* (in specie 1. muticis.)

† *Foliis integerrimis.*

1. Q. foliis deciduis lineari-lanceolatis utrinque attenuatis integerrimis glabris mucronatis, cupula scutellata, glande subrotunda.—*Willd. sp. pl.* 4. *p.* 423. *Phellos.*

Q. Phellos sylvatica. *Mich. querc. n.* 7.

Icon. *Mich. l. c. t.* 12. *Mich. arb.* 2. *t.* 12. *Catesb. car.* 1. *t.* 16. *Abbot. insect.* 2. *t.* 91. *Wangh. amer. t.* 5. *f.* 11. *Pluk. amalth. t.* 441. *f.* 7.

β. Q. foliis brevioribus. *Catesb. car.* 1. *t.* 22. *Wangh. amer. t.* 5. *f.* 12. humilis.

In low swampy forests, near the sea-coast: New Jersey to Florida. ♄. May. *v. v.* The *Willow Oak* grows to the height of about fifty or sixty feet. The young leaves are dentated. The variety β. is of low straggling growth.

2. Q. foliis perennantibus coriaceis lanceolatis integerrimis glabris basi attenuatis, apice acutis mucronatis, cupula scutellata, glande subrotunda.—*Willd. sp. pl.* 4. *p* 424. *maritima.*

Q. Phellos maritima. *Mich. querc. t.* 13. *f.* 1.

On the sea-coast of Virginia and Carolina. ♄. May, June. *v. v.* A low shrubby species, from three to eight feet high.

sericea. 3. Q. foliis deciduis lanceolato-oblongis integerrimis subundatis basi attenuatis obtusis, apice dilatatis acutis subtus sericeis, cupula scutellata, glande subglobosa.—*Willd. sp. pl.* 4. *p.* 424.

Q. Phellos pumila. *Mich. querc. t.* 13. *f.* 1. & 2.

Q. Phellos sericea. *Ait. kew.* 3. *p.* 354. *Abbot. insect.* 2. *t.* 51.

Q. pumila. *Mich. arb.* 2. *p.* 84. *t.* 15. *Walt. fl. car.* 234.

Near the sea-coast: Carolina to Florida. ♄. May. *v. v.* The *Running Oak* is perhaps the smallest of all the species, scarcely ever exceeding two feet in height.

myrtifolia. 4. Q. foliis perennantibus coriaceis oblongis integerrimis glabris utrinque acutis supra nitidis margine revolutis. —*Willd. sp. pl.* 4. *p.* 424.

In Carolina. *Willdenow.* ♄. +. Leaves resemble those of *Myrtus communis* with large leaves; the fruit is not known.

virens. 5. Q. foliis perennantibus coriaceis oblongo-ellipticis integerrimis margine revolutis basi obtusis apice acutis muticis subtus stellatim pubescentibus, fructibus pedunculatis, cupula turbinata, squamis abbreviatis, glande oblonga.—*Willd. sp. pl.* 4. *p.* 425.

Q. Phellos β. *Sp. pl.* 1412.

Q. sempervirens. *Walt. fl. car.* 234.

Icon. *Mich. querc. t.* 10. & 11. *Mich. arb. t.* 11. *Catesb. car.* 1. *t.* 16.

Near the sea-coast: Virginia to Florida and Mississippi. ♄. May. *v. v.* The *Live Oak* grows to the height of forty or fifty feet, spreading its branches, when in open places, extremely wide: it yields the finest and most durable ship-timber of any species known; for which reason it is considered one of the most valuable trees in America.

cinerea. 6. Q. foliis perennantibus coriaceis lanceolato-oblongis integerrimis margine revolutis basi attenuatis apice obtusiusculis mucronatis subtus stellatim tomentosis, fructibus sessilibus, cupula scutellata, glande subglobosa. —*Willd. sp. pl.* 4. *p.* 425.

Q. Phellos β. *Ait. kew.* 3. *p.* 354.

Q. humilis. *Walt. fl. car.* 234.

Icon. *Mich. querc. n.* 8. *t.* 14. *Mich. arb.* 2. *p.* 80. *t.* 14.

In dry barren soil and pine-forests: Virginia to Georgia. ♄. May, June. *v. v.* The *Upland Willow Oak* is

very variable in size, sometimes not above four feet, at others nearly twenty feet high. The younger Michaux considers *Q. nana* of Willdenow to be only a variety of the present species; which I very much doubt.

7. Q. foliis deciduis oblongis utrinque acutis mucronatis integerrimis nitidis subtus pubescentibus, cupula scutellata: squamis lato-ovatis, glande subglobosa.—*Willd. sp. pl.* 4. *p.* 428. *imbricaria.*

Icon. *Mich. querc. n.* 9. *t.* 15. & 16. *Mich. arb.* 2. *p.* 78. *t.* 13.

On the banks of rivers, within the Allegany mountains, and in the western countries thereof. ♄. May, June. *v. v.* The *Shingle Oak* rises to about forty or fifty feet. The younger Michaux considers the wood of this species of little value.

8. Q. foliis deciduis obovato-lanceolatis acutis basi attenuatis integerrimis utrinque glabris, cupula scutellata: squamis lanceolatis, glande subovata.—*Willd. sp. pl.* 4. *p.* 427. *laurifolia.*

Icon. *Mich. querc. n.* 10. *t.* 17.

β. Q. foliis apice obtusis. *Mich. querc. t.* 18. obtusa.

In South Carolina and Georgia. ♄. May. *v. v.* The *Laurel Oak*, or as it is sometimes called *Swamp Willow Oak*, is about fifty or sixty feet high: its wood, according to the elder Michaux, is very valuable, and almost preferable to that of *Q. virens*. For what reason the younger Michaux does not mention this species, I cannot tell, unless he considers it only a variety of the preceding; which most certainly is not the case.

†† *Foliis dentatis aut breviter lobatis.*

9. Q. foliis subrotundo-ovatis subcordatis utrinque glabris remote spinoso-dentatis, cupula hemisphærica: squamis laxis, glande ovata acuta.—*Willd. sp. pl.* 4. *p.* 431. *agrifolia.* /

Icon. *Pluk. phytogr. t.* 196. *f.* 3?

On the north-west coast, about Nootka Sound. *Nee.* ♄. +.

10. Q. foliis longe petiolatis ovato-lanceolatis oblongisve integris vel inæqualiter grandidentatis, cupula hemisphærica, glande subglobosa.—*Mich. arb.* 2. *p.* 87. *heterophylla.* /

Icon. *Mich. l. c. t.* 16.

On the banks of the Delaware, Pensylvania. ♄. May. *v. v.* Of this singular species there is but one indivi-

dual known, which grows on the plantation of the Messrs. Bartrams near Philadelphia. It probably is only a hybrid plant on that account, and cannot with propriety be considered a genuine species: but the younger Michaux having given a good figure of it, I insert it here on that account only.

aquatica. 11. Q. foliis obovato-cuneiformibus glabris integerrimis apice obsolete trilobis, lobo intermedio majore, cupula hemisphærica, glande subglobosa.—*Willd. sp. pl.* 4. *p.* 441.

Q. nigra. *Sp. pl.* 1413.

Q. uliginosa. *Wangh. amer. t.* 6. *f.* 18.

Icon. *Mich. querc. n.* 11. *t.* 19. *t.* 20. *f.* 1. 3. 4. 5. & *t.* 21. *Mich. arb.* 2. *p.* 89. *t.* 17.

In swamps: Maryland to Florida. ♄. May. *v. v.* The *Water Oak* is about forty feet high when full grown; its wood is but little valued. Its leaves vary, according to soil and age, *ad infinitum.* There is scarcely one tree found having leaves like the other, and the same tree is almost as variable in its different branches.

hemisphærica. 12. Q. foliis perennantibus oblongo-lanceolatis indivisis trilobis sinuatisque, lobis mucronatis, utrinque glabris. *Willd. sp. pl.* 4. *p.* 443. *Bartr. itin.* 320.

Icon. *Mich. querc. t.* 20. *f.* 2.

In Georgia and Florida. ♄. May. *v. v. s.* This is probably nothing more than a young plant of *Q. aquatica,* which is so very apt to vary in its foliage.

nana. 13. Q. foliis cuneiformibus glabris apice trilobis basi subsinuatis, lobis divaricatis mucronatis intermedio majore, axillis venarum subtus pubescentibus, cupula scutellata, glande ovato-subglobosa.—*Willd. sp. pl.* 4. *p.* 443.

Q. aquatica elongata. *Ait. kew.* 3. *p.* 357.

Icon. *Abbot. insect.* 2. *t.* 59.

In pine-barrens of South Carolina. ♄. May. *v. v. s. fr.* A low-growing species, always keeping distinct from *Q. aquatica.*

triloba. 14. Q. foliis oblongis cuneiformibus basi acutis, apice subtrilobis, lobis æqualibus mucronatis, intermedio longiore, subtus tomentosis, cupula scutellata, glande depresso-globosa.—*Willd. sp. pl.* 4. *p.* 443.

Q. cuneata. *Wangh. amer. p.* 78. *t.* 5. *f.* 14.

Icon. *Mich. querc. n.* 14. *t.* 26. *Abbot. insect.* 1. *t.* 50?

In pine-barrens, near the sea-coast: New Jersey to Geor-

gia. ♄. May. *v. v.* The *Downy Black Oak* is from twenty to forty feet high, according to Michaux, of very rapid growth, and extremely well calculated for inclosing of lands.

15. Q. foliis coriaceis cuneiformibus basi subcordatis, apice dilatatis retuso-subtrilobis, junioribus mucronatis, supra glabris, subtus rubiginoso-pulverulentis, cupula turbinata: squamis obtusis scariosis, glande brevi-ovata.—*Willd. sp. pl.* 4. *p.* 442.

Q. nigra β. *Sp. pl.* 1413.

Q. ferruginea. *Mich. arb.* 2. *p.* 92.

Icon. *Mich. querc. n.* 12. *t.* 22. 23. *Mich. arb. t.* 18. *Catesb. car.* 1. *t.* 19. *Wangh. amer. t.* 5. *f.* 13. *Abbot. insect. t.* 58.

In barren sandy or gravelly woods: New Jersey to Florida. ♄. May. *v. v.* The *Barren Oak* or *Black Jack* of the Virginians is of low growth, especially in the more northern states: it bears very abundantly and furnishes a fine mast for hogs: the wood is small, but excellent for fuel.

16. Q. foliis obovato-oblongis levissime sinuatis subtus pubescentibus, lobis oblongis obtusis obsolete denticulatis setaceo-mucronatis, cupula scutellata, glande depresso-globosa.—*Willd. sp. pl.* 4. *p.* 444. *tinctoria.*

Q. tinctoria angulosa. *Mich. querc. n.* 13. *t.* 24.

Q. discolor. *Willd. nov. act. soc. nat. scrut. berol.* 3. *p.* 399.

Q. velutina. *Lam. encycl.* 1. *p.* 173

In all large woods, particularly in the mountainous parts: New England to Georgia. ♄. May. *v. v.* The *Black Oak*, or *Quercitron*, is one of the largest trees of the American forest, and highly valuable on account of its timber as well as its bark, which is so very superior in tanning to any other species of oak.

17. Q. foliis oblongis pinnatifido-sinuatis subtus pubescentibus, lobis oblongis dentatis setaceo mucronatis, cupula turbinata, glande ovata.—*Willd. sp. pl.* 4. *p.* 444. *discolor.*

Q. tinctoria sinuosa. *Mich. querc. n.* 13. *t.* 25.

Icon. *Abbot. insect.* 2. *p.* 111. & 56. *Pluk. alm. t.* 54. *f.* 5.

In large forests: Pensylvania to Carolina. ♄. May. *v. v.* Resembles the preceding, and likewise *Q. coccinea.* The young expanding leaves are covered with

a white down on both sides, which is not the case with either *Q. rubra* or *Q. coccinea*. Whether the figure of *Q. tinctoria Mich. arb. 2. t. 22.* belongs to this or the preceding species, I have not been able to decide.

††† *Foliis profunde sinuatis lobatisque.*

coccinea. 18. Q. foliis longe petiolatis oblongis profunde sinuatis glabris, lobis divaricatis dentatis acutis setaceo-mucronatis, cupula turbinata insigniter squamosa, glande breviovata.—*Willd. sp. pl. 4. p. 446.*

Icon. *Mich. querc. n. 18. t. 31. 32. Mich. arb. 2. p. 116. t. 23. Wangh. amer. t. 4. f. 9.*

In fertile woods: New England to Georgia. ♄. May. *v. v.* The *Scarlet Oak* is a very large tree, and changes its leaves in autumn to a bright red, which give the woods a very picturesque appearance.

ambigua. 19. Q. foliis sinuatis glabris basi acutis, sinubus subacutis, cupula subscutellata, glande turgide ovata.—*Mich. arb. 2. p. 120.*

Icon. *Mich. l. c. t. 24.*

On Hudson's Bay and in Nova Scotia. *Michaux.* ♄. May. +. This is an intermediate species, between the preceding and following one, and probably only a hybrid plant. Michaux calls it *Gray Oak.*

rubra. 20. Q. foliis longe petiolatis oblongis glabris obtuse sinuatis, lobis acutiusculis dentatis setaceo-mucronatis, cupula scutellata sublævi, glande subovata turgida.—*Willd. sp. pl. 4. p. 445.*

Icon. *Mich. querc. n. 20. t. 35. 36. Mich. arb. 2. p. 126. t. 26. Wangh. amer. t. 3. f. 7. Pluk. alm. t. 54. f. 4. Du Roi harbk. 2. t. 5. f. 2.*

In fertile forests: Canada to Pensylvania, and in the Allegany mountains. ♄. May. *v. v.* This large and fine timber tree is exclusively known by the name of *Red Oak,* which name is likewise applied to *Q. tinctoria, coccinea, falcata, palustris, phellos, ambigua,* and *aquatica,* in several parts of America.

Catesbæi. 21. Q. foliis brevissime petiolatis basi cuneatis oblongis profunde sinuatis glabris, lobis tribus quinisve divaricatis dentatis acutis setaceo-mucronatis, cupula turbinata ampla: squamis obtusis marginalibus introflexis, glande subglobosa.—*Willd. sp. pl. 4. p. 446.*

Icon. *Mich. querc. n. 17. t. 29. 30. Mich. arb. 2. p. 101. t. 20. Catesb. car. 1. t. 23.*

In pine-barrens: Carolina and Georgia. ♄. May. *v. v.* The *Barren Scrub Oak* is of shrubby growth, not above fifteen feet high, and occurs in the most sterile soil of those countries in great abundance.

22. Q. foliis longe petiolatis basi obtusis subtus tomentosis trilobis sinuatisve, lobis subfalcatis setaceo-mucronatis, terminali elongato, cupula crateriformi, glande globosa.—*Mich. fl. amer.* 2. *p.* 199. *falcata.*

Q. elongata. *Willd. sp. pl.* 4. *p.* 444.

Icon. *Mich. querc. n.* 16. *t.* 28. *Mich. arb.* 2. *p.* 104. *t.* 21.

In sandy soil, near the sea-coast: New Jersey to Georgia. ♄. May. *v. v.* A very large tree, commonly called *Spanish Oak.* In the southern states it is known by the name of *Red Oak.*

23. Q. foliis longe petiolatis oblongis profunde sinuatis glabris, axillis venarum subtus villosis, lobis divaricatis dentatis acutis setaceo-mucronatis, cupula scutellata lævi, glande subglobosa.—*Willd. sp. pl.* 4. *p.* 446. *palustris.*

Icon. *Mich. querc. n.* 19. *t.* 33. 34. *Mich. arb.* 2. *p.* 123. *t.* 25. *Du Roi harbk.* 2. *t.* 5. *f.* 4. *Wangh. amer. t.* 5. *f.* 10.

In low swampy woods: New England to Pensylvania, and in Illinois. ♄. May. *v. v.* The *Swamp Spanish Oak* or *Pin Oak* is a large tree; leaves rather small and handsomely divided; the acorns small, and generally in great abundance.

24. Q. foliis longe petiolatis obovato-cuneiformibus tri-quinquelobisve margine integerrimis subtus cinereo-tomentosis, lobis setaceo-mucronatis, cupula subturbinata, glande subglobosa.—*Mich. fl. amer.* 2. *p.* 199. *Banisteri.*

Q. ilicifolia. *Willd. sp. pl.* 4. *p.* 447. *Wangh. amer.* 79. *t.* 6. *f.* 17.

Icon. *Mich. querc. n.* 15. *t.* 27. *Mich. arb.* 2. *p.* 96. *t.* 19. *Abbot. insect.* 2. *t.* 79?

In dry barren fields and on the mountains: New Jersey to Virginia. ♄. May. *v. v.* This shrub, about four or six feet high, covers large tracts of ground wherever it occurs, called Oak-barrens: it is known by the name of *Bear Oak*, *Black Scrub Oak*, and *Dwarf Red Oak.*

** *Fructificatio annua; fructibus pedunculatis; foliis muticis.*

† *Foliis lobatis.*

obtusiloba. 25. Q. foliis oblongis sinuatis basi cuneatis subtus pubescentibus, lobis obtusis superioribus dilatatis bilobis, cupula hemisphærica, glande ovali.—*Mich. fl. amer.* 2. *p.* 194.

Q. stellata. *Willd. sp pl.* 4. *p.* 452. *Wangh. amer.* 78. *t.* 6. *f.* 15.

Icon. *Mich. querc. n.* 1. *t.* 1. *Mich. arb.* 2. *t.* 4.

In most forests: Canada to Florida. ♄. May. *v. v.* The *Upland White Oak* or *Iron Oak* is a spreading tree about fifty or sixty feet high; its timber is of great value in ship-building.

macrocarpa. 26. Q. foliis subtus tomentosis profunde lyratim sinuato-lobatis, lobis obtusis repandis, superioribus dilatatis, cupula craterata; squamis superioribus setosis, glande turgide ovata.—*Willd. sp. pl.* 4. *p.* 453.

Icon. *Mich. querc. n.* 2. *t.* 2. & 3. *Mich. arb.* 2. *t.* 3.

Within the mountains, on dry slate or lime-stone hills: Kentucky, Tennassee, Illinois, Mississippi, and Missouri. ♄. May. *v. v.* A large tree, called *Overcup White Oak* by the inhabitants; the fruit is the largest of the American species; the wood very excellent.

olivæformis. 27. Q. foliis oblongis glabris subtus glaucis profunde inæqualiter sinuato-pinnatifidis, fructu elliptico-ovato, cupula profunde craterata superne crinita, glande elliptico-ovali.—*Mich. arb.* 2. *p.* 32.

Icon. *Mich. arb.* 2. *t.* 2.

On the banks of Hudson's river and the western parts of New York. *Michaux.* In Pensylvania and Virginia, on iron-ore hills. *Ph.* ♄. May. *v. v.* The *Mossy-cup Oak* is a large tree; the foliage handsome, and somewhat resembling the preceding species.

lyrata. 28. Q. foliis brevissime petiolatis glabris lyrato-sinuatis summitate dilatatis, lobis oblongis acutis superioribus angulato-truncatis, cupula depresso-globosa tuberculoso-muricata glande globosa subtecta.—*Willd. sp. pl.* 4. *p.* 453. *Walt. fl. car.* 235.

Icon. *Mich. querc. n.* 3. *t.* 4. *Mich. arb.* 2. *p.* 42. *t.* 5.

In swamps: Carolina to Florida, and on the Mississippi. ♄. May. *v. s.* This oak is from eight to fifteen feet

high, and known under the names *Over-cup Oak*, *Swamp-post Oak*, and *Water White Oak*. The fruit is almost entirely covered with the cupula or calyx.

29. Q. foliis oblongis pinnatifido-sinuatis subtus pubescentibus, lobis lineari-lanceolatis obtusis integerrimis basi attenuatis, fructibus pedunculatis, cupula subcraterata tuberculosa, basi plana, glande ovata.—*Willd. sp. pl.* 4. *p.* 449. *alba.*

Icon. *Mich. querc. n.* 4. *t.* 5. *Mich. arb.* 2. *p.* 13. *t.* 1. *Du Roi harbk.* 2. *t.* 5. *f.* 5. *Wangh. amer. t.* 3. *f.* 6. *Catesb. car.* 1. *t.* 21. *f.* 2.

β. Q. foliis levissime lobatis utrinque viridibus. *Mich. l. c. t.* 5. *f.* 2. *repanda.*

In fertile forests: New England to Carolina. β. Pensylvania and Carolina. ♄. May. *v. v.* The *White Oak* is one of the most abundant and useful of this genus in America; it grows in the middle states to an immense size.

†† *Foliis integris, dentatis.*

30. Q. foliis longe petiolatis obovatis acutis subtus pubescentibus grosse dentatis, dentibus subæqualibus dilatatis apice callosis, cupula craterata basi attenuata, glande ovata.—*Willd. sp. pl.* 4. *p.* 439. *Prinus.*

Q. Prinus palustris. *Mich. fl. amer.* 2. *p.* 196.

Icon. *Mich. querc. n.* 5. *t.* 6. *Mich. arb.* 2. *t.* 7. *Du Roi harbk.* 2. *t.* 6. *f.* 3. *Wangh. amer. t.* 4. *f.* 8. *Catesb. car.* 1. *t.* 18. *Pluk. alm. t.* 54. *f.* 3.

In low shady woods and on the banks of rivers: Pensylvania to Florida. ♄. May. *v. v.* This large and useful tree is known by the name of *Chesnut White Oak*, *Swamp Chesnut Oak*, and, to the south, *White Oak*. The fruit is large, and of a sweet taste.

31. Q. foliis brevi-petiolatis oblongo-obovatis subtus albo-tomentosis grosse dentatis basi integerrimis, dentibus inæqualibus dilatatis acutiusculis apice callosis, fructibus geminis longe pedunculatis, pedunculo in setam terminante, cupula hemisphærica, glande oblongo-ovata.—*Willd. sp. pl.* 4. *p.* 440. *bicolor.*

Q. Prinus tomentosa. *Mich. querc. n.* 5. *t.* 9. *f.* 2.

Q. Prinus discolor. *Mich. arb.* 2. *p.* 46. *t.* 6.

In low wet woods: Pensylvania to Carolina. ♄. May. *v. v.* The *Swamp White Oak* grows to a very large tree; the acorn, as of most of the chesnut oaks, is sweet.

montana. 32. Q. foliis modice petiolatis lato-obovatis oblongis subtus albo-tomentosis supra nitidis grosse dentatis basi obtusis inæqualibus, dentibus subæqualibus obtusissimis brevibus, fructibus geminis brevi-pedunculatis, cupula hemisphærica, squamis tuberculatis rugosis, glande ovata.—*Willd. sp. pl.* 4. *p.* 440.

Q. Prinus monticola. *Mich. fl. amer.* 2. *p.* 196.

Icon. *Mich. querc. n.* 5. *t.* 7. *Mich. arb.* 2. *t.* 8. *Abbot. insect.* 2. *t.* 82.

In rocky situations on the mountains: New England to Carolina. ♄. May. *v. v.* The *Rock Chesnut Oak* rises to about sixty feet; its timber is in high value, and its bark tans extremely well.

Castanea. 33. Q. foliis longe petiolatis oblongo-lanceolatis basi obtusis acuminatis subtus tomentosis grosse dentatis, dentibus subæqualibus dilatatis acutis apice callosis, cupula hemisphærica, glande ovato-subglobosa.—*Willd. sp. pl.* 4. *p.* 441.

Q. Prinus acuminata. *Mich. fl. amer.* 2. *p.* 196.

Icon. *Mich. querc. n.* 5. *t.* 8. *Mich. arb.* 2. *p.* 61. *t.* 9.

In the Allegany mountains and on the banks of the Delaware. ♄. May. *v. v.* The *Yellow Oak* is a beautiful and large tree; the acorns are eatable.

Chinquapin. 34. Q. foliis brevi-petiolatis obovatis basi acutis grosse dentatis subtus glaucis, dentibus subæqualibus dilatatis apice callosis, cupula hemisphærica, glande ovata.

Q. Prinus Chinquapin. *Mich. arb.* 2. *p.* 65.

Q. prinoides. *Willd. sp. pl.* 4. *p.* 440.

Icon. *Mich. querc. n.* 5. *t.* 9. *f.* 1. *Mich. arb.* 2. *t.* 10. *bona.*

On dry mountain lands: Pensylvania to Carolina. ♄. May. *v. v.* The *Chinquapin* or *Dwarf Chesnut Oak* is a low-growing shrub, not exceeding three or four feet in height; it is highly ornamental when in full bloom.

701. CORYLUS. *Gen. pl.* 1450.

americana. 1. C. foliis subrotundis cordatis acuminatis, calycibus fructus subrotundo-campanulatis nuce subglobosa majoribus, limbo dilatato dentato-serrato.—*Willd. sp. pl.* 4. *p.* 471.

Icon. *Wangh. amer. t.* 29. *f.* 63.

In low shady woods: Canada to Florida. ♄. March, April. *v. v.* The *Hazel Nut* or *Wild Filbert* is a shrub from four to eight feet high; the nuts very fine.

2. C. foliis oblongo-ovatis acuminatis, stipulis lineari-lanceolatis, calycibus fructus campanulato-tubulosis nuce majoribus bipartitis, laciniis inciso-dentatis. *Willd. sp. pl.* 4. *p.* 471. *rostrata.*

Icon. *Willd. arb. t.* 1. *f.* 2.

In the mountains: Canada to Carolina. ♄. April. *v. v.* This species is not above four or five feet high.

702. LIQUIDAMBAR. *Gen. pl.* 1452.

1. L. foliis palmatis, lobis acuminatis, serratis, sinubus baseos venarum villosis.—*Willd. sp. pl.* 4. *p.* 475. *styraciflua.*

Icon. *Mich. arb.* 3. *p.* 194. *t.* 4.

In low woods, on fertile soil: New England to Florida, and in all the western countries. ♄. May. *v. v.* The *Sweet-gum Tree* is sometimes found of an immense size, particularly in the southern states; its wood is of an exquisite hard texture and fine grain, and furniture made of it has a very handsome appearance.

703. COMPTONIA. *Gen. pl.* 1764.

1. C. foliis longo-linearibus alternatim crenato-pinnatifidis. —*Willd. sp. pl.* 4. *p.* 320. *asplenifolia.*

Liquidambar peregrinum. *Syst. veg.* 860.

Liquidambar asplenifolium. *Sp. pl.* 1418.

Icon. *Pluk. alm. t.* 100. *f.* 6.

In sandy, stony, or slaty woods: New England to Virginia. ♄. March, April. *v. v.* The *Sweet-fern Bush* rises to about three or four feet high; the whole of the plant when rubbed has a strong resinous scent.

704. PLATANUS. *Gen. pl.* 1451.

1. P. foliis quinquangularibus obsolete lobatis dentatis, ramulis albentibus.—*Willd. sp. pl.* 4. *p.* 474. *occidentalis.*

Icon. *Catesb car.* 1. *t.* 56. *Duham. arb. t.* 35. *Mich. arb.* 3. *t.* 3.

On the banks of rivers: Canada to Florida, and in Louisiana. ♄. May. *v. v.* This tree is known by the name of *Button-wood, Water Beech, Sycamore* and *Plane Tree*; in Canada *Cotton Tree.* It is perhaps the largest tree in North America: on the fertile banks of the Ohio and the Mississippi there are trees measuring from ten to sixteen feet in diameter.

705. JUGLANS. *Gen. pl.* 1446.

* *Amentis masculis simplicibus, polyandris:* Walnuts.

nigra. 1. J. foliolis numerosis ovato-lanceolatis serratis subcordatis superne angustatis, subtus petiolisque subpubescentibus, fructibus globosis scabro punctatis, nuce corrugata.—*Willd. sp. pl.* 4. *p.* 456.

Icon. *Mich. arb.* 1. *p.* 157. *t.* 1. *Jacq. ic. rar.* 1. *t.* 191. *Wangh. amer. t.* 8. *f* 20. *Catesb. car.* 1. *t.* 67.

In fertile woods: New England to Florida. ♄. April, May. *v. v.* The *Black Walnut* is, like all the following, a tree of large size, and its nuts are eaten by men and several species of animals. The wood is put to various mechanical and œconomical uses; for which information I refer to the different authors on forest trees, but particularly to the works of the younger Michaux.

cinerea. 2. J. foliolis numerosis lanceolatis serratis basi rotundatis subtus pubescenti-mollibus, petiolis villosis, fructibus oblongo-ovatis apice mammosis viscidis longe pedunculatis, nuce oblonga acuminata insigniter insculpto-scabrosa.—*Willd. sp. pl.* 4. *p.* 456.

J. cathartica. *Mich. arb.* 1. *p.* 165.

J. oblonga. *Mill. dict. n.* 3. *Retz. obs.* 1. *p.* 10.

Icon. *Mich. arb.* 1. *t.* 2. *Jacq. ic. rar.* 1. *t.* 192. *Wangh. amer. t.* 9. *f.* 21.

Near the sea-coast: Canada to Virginia, and on the Allegany mountains. ♄. April, May. *v. v.* It is known under the name of *Butter Nut, Oil Nut,* and *White Walnut.* The younger Michaux has altered the adopted name, and substituted one indicating the medicinal use made of it, which certainly would be a very good name if the old one had not been so long established.

** *Amentis masculis compositis, tetrandris.* Hickory.

olivæformis. 3. J. foliolis numerosis (13—15) lanceolatis subfalcatis serratis, impari petiolato, fructibus oblongis tetragonis, nuce olivæformi lævi.—*Willd. sp. pl.* 4. *p.* 457.

J. angustifolia. *Ait. kew.* 3. *p.* 361.

J. Pecan. *Muhlb. in nov. act. soc. nat. scrut. berol.* 3. *p.* 392.

Icon. *Mich. arb.* 1. *t.* 3.

On the banks of the Ohio, Mississippi, and other rivers

in Upper Louisiana. ♄. April, May. *v. v.* It is generally known under the name of *Pecan* or *Illinois Nut*; the fruit is small, with a very thin shell, and a delicious kernel.

4. J. foliolis subnovenis obovato-lanceolatis acuminatis serratis subtus pubescentibus, impari subsessili basi attenuato, fructibus subrotundis 4-carinatis, nuce subglobosa leviter compressa lævi longe mucronata.—*Willd. sp. pl.* 4. *p.* 457. *sulcata.*

J. mucronata. *Mich. fl. amer.* 2. *p.* 192.

J. laciniosa, *Mich. arb.* 1. *p.* 199.

Icon. *Mich. arb.* 1. *t.* 8.

In fertile valleys of the Allegany mountains. ♄. April, May. *v. v.* It is called *Thick Shell-bark Hickory, Springfield* or *Glocester Nut.* The nuts are large and fine tasted; the bark is torn lengthways in long loose fragments, as in the following species.

5. J. foliolis subseptenis longe petiolatis oblongo-lanceolatis acuminatis argute serratis, subtus villosis, impari sessili, amentis filiformibus glabris, fructibus depresso-globosis, nuce compressa obliqua.—*Mich. fl. amer.* 2. *p.* 193. *Sp. pl.* 1415. *alba.*

J. compressa. *Willd. sp. pl.* 4. *p.* 458. *Muhlb. in nov. act. soc. nat. scrut. berol.* 3. *p.* 390.

J. squamosa. *Mich. arb.* 1. *p.* 190.

Icon. *Mich. arb.* 1. *t.* 7. *Pluk. alm. t.* 309. *f.* 2. *Gært. carp.* 2. *t.* 89. *sub J. compressa. Catesb. car.* 1. *t.* 38.

In shady fertile forests: New England to Carolina, and throughout the Allegany mountains. ♄. April, May. *v. v.* This useful tree is known by the name of *Shell-bark Hickory, Shag-bark* and *Scaly-bark Hickory*, on account of its bark, which is torn in loose fragments like the preceding: its nuts are white, with a thin shell and very sweet and large kernel.

6. J. foliolis subnovenis oblongo-lanceolatis acuminatis leviter serratis subtus pubescentibus scabris, impari subpetiolato, amentis filiformibus longissimis tomentosis, fructibus subglobosis lævibus, pericarpio crassissimo, nuce subsexangulata putamine crassa durissima.—*Mich. fl. amer.* 2. *p.* 192. *tomentosa.*

J. alba. *Willd. sp. pl.* 4. *p.* 457.

Icon. *Mich. arb.* 1. *p.* 186. *t.* 6.

In fertile forests: New England to Virginia, and on the Allegany mountains. ♄. April, May. *v. v.* This

is known under the name of *Mocker Nut, White-heart Hickory* or *Common Hickory*. The wood is excellent for mechanical purposes, and particularly esteemed as fire-wood; but the nuts are very hard, with but little kernel in them.

amara. 7. J. foliolis subnovenis ovato-oblongis acuminatis argute serratis utrinque glabris, impari breviter petiolato, fructibus subglobosis, superne suturis prominulis, nuce lævi subglobosa mucronata, putamine fragili.—*Mich. arb.* 1. *p.* 177.

In dry fertile woods: New England to Maryland, and on the mountains. ♄. May. *v. v.* This is known by the name of *Bitter Nut, White* or *Swamp Hickory*. The nuts are small, the kernel bitter.

porcina. 8. J. foliolis subseptenis lanceolatis acuminatis serratis utrinque glabris, impari subsessili, fructibus pyriformibus vel globosis, nuce lævi durissima.—*Mich. arb.* 1. *p.* 206.

obcordata. α. J. fructu globoso, nuce obcordata.—*Mich. arb.* 1. *p.* 206. *t.* 9. *f.* 3. & 4.

J. obcordata. *Willd. sp. pl.* 4. *p.* 458.

ficiformis. β. J. fructu turbinato, nuce oblonga.—*Mich. arb.* 1. *p.* 209. *t.* 9. *f.* 1. & 2.

J. glabra. *Willd. sp. pl.* 4. *p.* 458.

In dry fertile forests: New England to Virginia. ♄. May. *v. v.* It is known by the name of *Pig* or *Hog Nut,* also *Broom Hickory.* The natives and inhabitants make brooms of it by slitting the very tough wood into narrow slips, which finally form a very good and durable broom. The nuts are very small and extremely hard.

aquatica. 9. J. foliolis subundenis angusto-lanceolatis acuminatis subserratis sessilibus, impari breviter pedicellato, fructibus pedunculatis ovatis suturis 4. prominulis, nuce subdepressa rubiginosa tenera.—*Mich. arb.* 1. *p.* 182.

Icon. *Mich. arb.* 1. *t.* 5.

In swamps and rice-fields: South Carolina and Georgia. ♄. May. *v. s.* Michaux calls it *Water Bitter-nut Hickory.* The fruit is extremely bitter.

myristicæformis. 10. J. foliolis quinis ovato-lanceolatis acuminatis serratis glabris, impari subsessili, fructibus ovalibus rugoso-scabris, nuce ovali brevi-acuminata sulcato-lineata durissima.—*Mich. arb.* 1. *p.* 211.

Icon. *Mich. arb.* 1. *t.* 10.

In South Carolina. *Michaux.* ♄. +. The *Nutmeg Hickory* is but little known; the nuts are very hard, and brown with white lines.

706. MORUS. *Gen. pl.* 1424.

1. M. foliis cordatis ovatis acuminatis trilobisve, æqualiter serratis scabris, subtus pubescentibus, amentis femineis cylindricis.—*Willd. sp. pl.* 4. *p.* 369. *rubra.*

Icon. *Mich. arb.* 3. *p.* 232. *t.* 10. *Wangh. amer. t.* 15. *f.* 35. *Pluk. alm. t.* 246. *f.* 4.

In fertile valleys throughout the middle States. ♄. June. *v. v.* The *Red Mulberry* is a very handsome tree, and the wood useful and very durable.

III. CONIFERÆ.

707. PINUS. *Gen. pl.* 1451.

* *Foliis solitariis, basi distinctis.* Abies.

1. P. foliis solitariis planis emarginatis integrisve subtus glaucis subpectinatis supra suberectis recurvato-patentibus, conis cylindraceis erectis, bracteolis abbreviatis obovatis longe mucronatis subserrulatis.—*Willd. sp. pl.* 4. *p.* 504. *Balsamea.*

Abies balsamifera. *Mich. fl. amer.* 2. *p.* 207.

Icon. *Lambert. monogr. p.* 48. *t.* 31. *Mich. arb.* 3. *t.* 14.

In Canada, Nova Scotia, New England, and on the Allegany mountains, in high and cold situations. ♄. May. *v. v.* This elegant tree is known by the name of *Balsam of Gilead Fir*, *Fir Balsam*, and *American Silver Fir.* It grows to the height of about forty or fifty feet.

2. P. foliis solitariis planis brevioribus emarginatis subtus glaucis subsecundis supra crebris erectis, conis ovato-oblongis erectis, bracteolis elongatis reflexis oblongo-cuneatis emarginatis brevi-mucronatis inciso-denticulatis. *Fraseri.*

On high mountains of Carolina. *Fraser.* On the Broad-mountains, Pensylvania. *Ph.* ♄. May. *v. v.*; *v. s. in Herb. Lambert.* This species, known among the inhabitants by the name of *Double-balsam Fir*, re-

sembles the preceding in several respects, but differs at first sight in being a smaller tree, the leaves shorter and more erect, and the cones not one fourth the size. Messrs. Frasers introduced this tree into England a few years ago.

taxifolia. 3. P. foliis solitariis planis subdistichis, conis oblongis, antheris didymis.—*Lambert. monogr. p.* 51. *t.* 33.

On the banks of the Columbia. *M. Lewis.* On the north-west coast. *Menzies.* ♄. *v. s. in Herb. Lewis.* This elegant and tall tree has some resemblance to the following one, but the leaves are more than twice the length. I have among my specimens two varieties, or probably distinct species, which for want of fructification I cannot decide: one has acute leaves, green on both sides; the other emarginate leaves, glaucous underneath.

canadensis. 4. P. foliis solitariis planis denticulatis subdistichis, strobilis ovatis terminalibus vix folio longioribus. *Lambert. monogr. p.* 50. *t.* 32.

P. americana. *Du Roi harbk.* 2. *p.* 107.

Icon. *Lambert. l. c. Mich. arb.* 1. *p.* 137. *t.* 13. *Wangh. amer. t.* 15. *f.* 36.

In the most northern regions of Canada and on the highest mountains, as far south as Carolina. ♄. May. *v. v.* The *Hemlock Spruce* is a very elegant tree, and grows in some situations to an enormous size; its bark is a fine substitute for oak-bark in tanning.

nigra. 5. P. foliis solitariis tetragonis undique sparsis erectis strictis strobilis ovatis, squamis ellipticis margine undulatis apice eroso-denticulatis.—*Lambert. monogr. p.* 41. *t.* 27.

P. mariana. *Du Roi harbk.* 2. *p.* 107.

P. denticulata. *Mich. fl. amer.* 2. *p.* 206.

Icon. *Lambert. l. c. Mich. arb.* 1. *t.* 11. *Mill. ic.* 1. *t.* 1.

From the more northern parts of Canada to Carolina, throughout the tracts of high mountains. ♄. May. *v. v.* The *Black Spruce* or *Double Spruce* is, besides its great mechanical use, the tree of which that wholesome beverage calld *Spruce Beer* is made.

rubra. 6. P. foliis solitariis subulatis, strobilis oblongis obtusis, squamis rotundatis subbilobis margine integris. *Lambert. monogr. p.* 43. *t.* 28.

Abies pectinata. *Lamarck. encycl.* 6. *t.* 523.

Icon. *Lambert. l. c.*

In Nova Scotia and about Hudson's Bay. ♄. May. *v. s.* This species of *Spruce Fir* is nearly related to the preceding. It is, as yet, a very scarce tree in the gardens.

7. P. foliis solitariis tetragonis incurvis, strobilis subcylindricis laxis, squamis obovatis integerrimis. *Lambert. monogr. p. 39. t. 26.* *alba.*

P. laxa. *Ehrh. beitr. 3. p. 24.*

P. canadensis. *Du Roi harbk. 2. t. 124.*

Icon. *Lambert. l. c. Mich. arb. 1. t. 12. Wangh. amer. 5. t. 1. f. 2.*

In similar situations with *P. nigra.* ♄. May. *v. v.* The *White Spruce* is of lower growth than the *Black Spruce*, its wood not so good as that, and its branches unfit for making spruce beer.

** *Foliis pluribus, basi vaginatis.* Pinus.

8. P. foliis brevibus geminis, strobilis recurvis oblongo-conicis longitudine foliorum, aculeis squamarum subulatis rectis.—*Lambert. monogr. p. 18. t. 13.* *inops.*

P. virginiana. *Du Roi harbk. 2. p. 35.*

Icon. *Lambert. l. c. Mich. arb. 1. t. 4.*

In dry barren soil: New Jersey to Carolina. ♄. May. *v. v.* The *Jersey Pine, Pitch* or *Scrub Pine*, is of middle size, straggling growth, and full of resin. Its branches are tougher than any other pine I know, and might be used for several useful purposes if its wood was not so apt to an early decay. A. B. Lambert, Esq. in his magnificent Monograph on this interesting and useful genus, made similar observations, which the younger Michaux in his *Arbres forestiers*, p. 60. has taken up as a point of criticism. On this subject Mr. Lambert favoured me with his observations respecting this and some other remarks made by Mr. Michaux, which I think proper here to insert; it is in the following words: "The criticisms made by Mr. Michaux on my 'Description of the genus Pinus' are so inaccurate, that I did not think them worth my notice before, nor should I now, were it not to prevent Mr. Pursh from being misled by them, though I believe he is already well aware of their fallacy: I shall therefore beg of him to insert a few observations on the different subjects to which they respectively belong, if they meet with his approbation and con-

currence. Whether Mr. Michaux has been successful in changing the specific names of the pines, I shall leave to future botanists to decide: but I must correct him in respect to the *specific name* he has added to my own, which certainly does not belong to it." The observation which Mr. Lambert makes in this place is, "Michaux's observations relative to the branches of *P. inops* being not fit for hoops appear to be mere matter of opinion, as well as mine, without experience."

resinosa. 9. P. foliis elongatis geminatis, vaginis elongatis, strobilis ovato-conicis basi rotundatis subsolitariis folio dimidio brevioribus, squamis medio dilatatis inermibus.—*Lambert. monogr. p.* 20. *t.* 14.

P. rubra. *Mich. arb. p.* 45 *t.* 1.

In Canada and the western parts of New York. ♄. *v. v.* This tree, called by Aiton *Pitch Pine*, is generally known in its native country by the name of *Norway Pine*; sometimes, particularly among the Canadian French, *Red Pine*. It grows in close forests, is very tall, and its bark is remarkably smooth and red; the timber is very heavy, for which reason it is rejected for masts, though its size and shape are apparently very recommendable for that purpose. Mr. Lambert in his note, quoted above, observes, "In confirmation of what I have said relative to the timber of *P. resinosa*, Mr. Michaux mentions the exportation of it being much diminished, as it has been found to contain too much sap; but he still thinks, from some planks he has seen, it is without foundation."

Banksiana. 10. P. foliis brevibus geminatis rigidis divaricatis obliquis, strobilis recurvis tortis, squamis inermibus.—*Lambert. monogr. p.* 7. *t.* 3.

P. rupestris. *Mich. arb.* 1. *p.* 49. *t.* 2.

P. hudsonia. *Lam. encycl.* 5. *p.* 339.

P. sylvestris δ. divaricata. *Ait. kew.* 3. *p.* 366.

In cold barren and rocky situations: Nova Scotia, Hudson's Bay, parts of Canada and Province of Maine. ♄. April, May. *v. v.* The *Scrub Pine*, or, as Michaux calls it, the *Gray Pine*, is a small straggling tree, which in some instances, when growing among the barren rocks, does not rise above five or eight feet high, though it will grow to a considerable size when, by accident or culture, it is brought on good soil. Mr. Lambert observes in his note, "that the trees of this

species now in England exude a great quantity of resin from their branches."

11. P. foliis elongatis binis ternatisque tenuibus canaliculatis, strobilis ovato-conicis subsolitariis, squamarum aculeis incurvis.—*Lambert. monogr. p.* 22. *t.* 15. *variabilis.*

P. mitis. *Mich. arb.* 1. *p.* 52. *t* 3.

In most pine-forests: New England to Georgia. ♄. May. *v. v.* The *Yellow Pine* is the most in use for building of houses as well as shipping. Mr. Lambert's note on this species says, "The height and size of *P. variabilis* I have taken from Wangenheim, who saw it growing in America, and see no reason for doubting his authority."

12. P. foliis ternis, vaginis abbreviatis, amentis masculis erecto-incumbentibus, strobilis ovatis sparsis vel aggregatis, squamarum spinis reflexis.—*Lambert. monogr. p.* 25. *t.* 18. 19. *rigida.*

Icon. *Lambert. l. c. Mich. arb.* 1. *p.* 89. *t.* 8.

On the plains: New England to Virginia. ♄. May. *v. v.* The common *Black* or *Pitch Pine* grows in favourable situations to a very large tree; it is found promiscuously in dry soil and very wet low grounds. Mr. Lambert says that his observations on this species were taken from Wangenheim.

13. P. foliis elongatis ternis, amentis masculis erecto-incumbentibus, strobilis ovatis, squamarum aculeis rectis tenuissimis.—*Mich. fl. amer.* 2. *p.* 205. *serotina.*

P. Tæda alopecuroides. *Ait. kew.* 3. *t.* 368.

Icon. *Mich. arb.* 1. *p.* 86. *t.* 7. *Lambert. monogr. t.* 19. *f.* 5.

On the edges of ponds and swamps: New Jersey to Carolina. ♄. May. *v. v.* This and the preceding species ripen their seeds only after the second year. I strongly suspect them to be only varieties; and if it had not been introduced as a species by a very good figure of Michaux's, I should have only given it as such.

14. P. foliis geminis brevibus acutis, strobilis ovato-conicis, aculeis squamarum elongatis subulatis incurvis, inferioribus reflexis.—*Lambert. monogr. p.* 91. *pungens.*

Icon. *Lambert. monogr. t.* 16. *f.* c. *Mich. arb.* 1. *p.* 61. *t.* 5.

On high mountains: on the Grandfather and Table

mountains, Carolina. ♄. *v. s. in Herb. Lambert.* The cones are large and armed with strong spines. The cone figured *t.* 16. *f.* c. *in Lambert. monogr.* is genuine, but the branch belongs to a separate species.

Tæda. 15. P. foliis elongatis ternis, vaginis elongatis, strobilis oblongo-conicis deflexis folio brevioribus, spinis inflexis. —*Lambert. monogr. p.* 23. *t.* 16. 17.

Icon. *Lambert. l. c. Mich. arb.* 1. *p.* 97. *t.* 9.

In barren and sandy situations: Virginia to Florida. ♄. April, May. *v. v.* The *Loblolly* or *Old field Pine* is found in large tracts in the southern states: all the woods seem to be seeded with it; for when any piece of cleared land is neglected for any space of time it will be covered with those pines. It is difficult and in some cases almost impracticable to recover those lands run over with young pines, as the ground appears to have lost all fertile properties for any other vegetable than those trees. The account Mr. Michaux gives of this tree is very correct and instructive; as also is the plate of Mr. Lambert; but unfortunately the latter, considering *P. tæda Wangh. amer.* 41. a genuine synonym, although it evidently belongs to *P. rigida* or *serotina*, has inadvertently been led into some errors in his description.

palustris. 16. P. foliis ternis longissimis, stipulis pinnatifidis ramentaceis persistentibus, strobilis subcylindraceis muricatis. —*Lambert. monogr. p.* 27. *f.* 20.

P. australis. *Mich. arb.* 1. *p.* 64. *t.* 6.

Icon. *Lambert. et Mich. l. c. Abbot. insect.* 1. *t.* 42.

In the forests, near the sea-coast: North Carolina to Florida. ♄. May. *v. v.* The *Long-leaved, Yellow, Pitch,* or *Broom Pine* is a beautiful as well as very useful tree. Mr. Lambert's remarks respecting the quality of the wood he has taken from Wangenheim, whom he considers sufficient authority; but on the observations of Michaux respecting the male flowers, he mentions in his note, "I can only suppose Mr. Michaux has never seen my plate with the male flowers, or he never would have made such an observation about them."

Strobus. 17. P. foliis quinis gracilibus, vaginis brevissimis, strobilis pendulis cylindraceis folio longioribus, squamis laxis. —*Willd. sp. pl.* 4. *p.* 501. *Lambert. monogr. p.* 31. *t.* 22.

Icon. *Lambert. l. c. Mich. arb.* 1. *p.* 103. *t.* 10. *Wangh. amer.* 1. *t.* 1. *f.* 1.

In fertile soil, on the side of hills: Canada to Virginia. ♄. May. *v. v.* The *White* or *Weymouth Pine* is the largest and most useful of all the species above mentioned; in the State of Vermont they grow to an enormous size; it is the best timber in America for masts.

*** *Foliis fasciculatis.* Larix.

18. P. foliis fasciculatis deciduis, strobilis oblongis, squamarum marginibus inflexis, bracteolis panduræformibus acumine attenuato. *Lambert. monogr. p.* 55. *t.* 36. *Ait. kew.* 3. *p.* 369. *pendula.*

In low cedar swamps: Canada to New Jersey. ♄. April, May. *v. v.* The *Black Larch, Tamarack,* or *Hack-matack* of the Americans, is a beautiful tree, resembling the European Larch in appearance, as well as in the excellent qualities of its wood and bark.

19. P. foliis fasciculatis deciduis, strobilis subrotundis paucifloris, squamis reflexis, bracteolis ellipticis obtuse acuminatis. *Lambert. monogr. p.* 56. *t.* 37. *microcarpa.*

P. pendula. *Willd. arb.* 215.

P. laricina. *Du Roi harbk.* 2. *p.* 83.

Larix americana. *Mich. fl. amer.* 2. *p.* 203.

Icon. *Lambert. l. c. Mich. arb.* 3. *t.* 4. *Wangh. amer. t.* 16. *f.* 37.

About Hudson's Bay and on high mountains of New York and Pensylvania. ♄. May. *v. v.* The *Red Larch* resembles the preceding, and both have been considered as one species by Michaux; but they are specifically and constantly different; I never saw them both growing in the same place, or even near one another. Mr. Lambert likewise observes that they have always kept distinct, when raised from seed.

708. CUPRESSUS. *Gen. pl.* 1458.

1. C. foliis distichis planis deciduis, floribus masculis aphyllo-paniculatis, strobilis subglobosis.—*Willd. sp. pl.* 4. *p.* 512. *disticha.*

Icon. *Mich. arb.* 3. *p.* 4. *t.* 1. *Catesb. car.* 1. *t.* 11. *Comm. hort.* 1. *t.* 59. *Pluk. alm. t.* 85. *f.* 8.

In extensive swamps and on the banks of large rivers from Indian-river Delaware to Florida, and on the Mis-

sissippi. ♄. May. *v. v.* The *Bald* or *Deciduous Cypress* is one of the largest trees of the New Continent. The extensive use made of its wood, and other particulars respecting this interesting tree, are fully elucidated in the excellent work of the younger Michaux, who paid particular attention to the use and properties of the different American forest trees.

thyoides. 2. C. ramulis compressis, foliis quadrifariam imbricatis ovatis basi tuberculatis, strobilis globulosis.—*Willd. sp. pl.* 4. *p.* 512.

Icon. *Mich. arb.* 3. *p.* 20. *t.* 2. *Wangh. amer. t.* 2. *f.* 4. *Pluk. mant. t.* 345. *f.* 1.

In deep swamps: New England to Carolina. ♄. April, May. *v. v.* The *White Cedar*, so well treated upon by Michaux, is the principal tree, composing what is called *Cedar-swamps*, throughout the middle and southern States.

709. THUYA. *Gen. pl.* 1457.

occidentalis. 1. T. ramulis ancipitibus, foliis quadrifariam imbricatis ovato-rhombeis adpressis nudis tuberculatis, strobilis obovatis, squamis interioribus truncatis, intra apicem gibbosis. *Willd. sp. pl.* 4. *p.* 508.

Icon. *Mich. arb.* 3. *p.* 29. *t* 3. *Wangh. amer. t.* 2. *f.* 3.

From Canada to the mountains of Virginia and Carolina. ♄. May. *v. v.* The *American Arbor Vitæ* is rather scarce in the southern States, and only found on the steep banks of mountain torrents. The branches are extremely tough.

710. JUNIPERUS. *Gen. pl.* 1552.

communis. 1. J. foliis ternis patentibus mucronatis bacca longioribus. *Willd. sp. pl.* 4. *p.* 853.

erecta. α. J. ramis erectis.

depressa. β. J. ramis depressis.

α. About rocks, near the falls of rivers, in Canada and the western part of New York. β. in New York, and particularly in the province of Maine, in rocky or gravelly situations. ♄. May. *v. v.* The *Common Juniper* may probably have been originally brought from Europe; but the variety β., or probably a distinct species, seems to be really an original native; it does not grow above a foot or two high, and one single

root will cover sometimes a space of from fifteen to twenty feet in diameter.

2. J. foliis ternis basi adnatis, junioribus imbricatis, senioribus patulis. *Willd. sp. pl.* 4. *p.* 863. *virginiana.*
Icon. *Mich. arb.* 3. *p.* 42. *t.* 5. *Wangh. amer. t.* 2. *f.* 51.
In dry and rocky woods and fields: Province of Maine to Georgia. ♄. May. *v. v.* The *Red Cedar*, so useful and durable a wood, for whose history I refer to Michaux's work so often quoted, is as yet in great abundance in most parts of that country; but its extermination is going on so rapidly, that future inhabitants will be very much at a loss, and will feel the want of it when it is too late.

3. J. foliis oppositis obtusis medio glandulosis, quadrifariam imbricatis, tenellis acutis oppositis, caule fruticoso. *Sabina.*
β. Willd. sp. pl. 4. *p.* 852. procumbens.
In the clefts of rocks: Canada. *Michaux.* *β.* Within the Rocky-mountains. *M. Lewis.* ♄. *v. s. in Herb. Lewis.* Not above six inches high.

4. J. foliis oppositis obtusiusculis, medio glandulosis, quadrifariam imbricatis, tenellis acutis ternis patulis, caule arboreo. *Willd. sp. pl.* 4. *p.* 852. *excelsa.*
J. Sabina varietas. *Pall. ross.* 2. *p.* 15.
On the banks of the waters of the Rocky-mountains. *M. Lewis.* ♄. May. *v. s. in Herb. Lewis.* A lofty elegant tree. Specimens of Pallas in the Herbarium of A. B. Lambert, Esq. seem to be the same with those collected by Mr. Lewis.

5. J. foliis omnibus quadrifariam imbricatis, junioribus ovatis, senioribus acutis. *Willd. sp. pl.* 4. *p.* 851. *barbadensis.*
Icon. *Pluk. alm. t.* 197. *f.* 4.
On the coast of Florida. *Michaux.* ♄. *v. v. in Hortis.*

711. TAXUS. *Gen. pl.* 1553.

1. T. foliis linearibus distichis margine revolutis, receptaculis masculis globosis. *Willd. sp. pl.* 4. *p.* 856. *canadensis.*
T. baccata minor. *Mich. fl. amer.* 2. *p.* 245.
In shady, rocky places: Canada. *Michaux.* On the banks of the Antietum, Maryland. *Ph.* March, April. *v. v.* The plants I observed on the Antietum cover a great part of the rocky banks of that river. Under the shade of other trees it does not rise above two or three feet.

712. ZAMIA. *Gen. pl.* 1700.

integrifolia. 1. Z. frondibus pinnatis, foliolis lanceolatis rotundato-obtusis basi attenuatis latere exteriore ad apicem serrulatis, stipite glabro subtetragono. *Willd. sp. pl.* 4. *p.* 847.

Z. pumila. *Sp. pl.* 1659. *excl. synon.*

Icon. *Jacq. ic.* 3. *t.* 635.

In East Florida. ♄. +. This species of palm is only found in Florida, as I have made all inquiries to find it in Georgia, but without success.

XX. CRYPTOGAMIA.

I. GONOPTERIDES.

713. EQUISETUM. *Recept.* peltata, pentagona, spicata. *Indusium* corniculatum. *Stam.* 4. *Styl.* 0. *Sem.* 1.

II. STACHYOPTERIDES.

714. LYCOPODIUM. *Capsulæ* reniformes, 1-loculares, 2-valves, polyspermæ. *Sem.* minutissima, pulveriformia.

715. BERNHARDIA. *Capsulæ* 3-coccæ, 3-loculares: loculis superne dehiscentibus, semibivalvibus.

716. OPHIOGLOSSUM. *Capsulæ* nudæ, uniloculares, in spicam articulatam disticham connatæ, 2-valves, transverse dehiscentes.

717. BOTRYCHIUM. *Capsulæ* subglobosæ, rachi adunatæ in racemum compositum dispositæ, 1-loculares: valvulis binis postice connexis transverse dehiscentibus.

III. SCHISMATOPTERIDES.

718. HYDROGLOSSUM. *Spicæ* unilaterales. *Capsulæ* biseriales, latere interiore a basi ad verticem dehiscentes. *Indusium* squamiforme quamlibet capsulam obtegens.

719. SCHIZÆA. *Spicæ* unilaterales, flabellatæ, aggregatæ. *Capsulæ* vertice radiatim striatæ, subturbinatæ, poro oblongo latere hiantes. *Indusium* continuum e margine inflexo spicæ formatum.

720. OSMUNDA. *Capsulæ* subglobosæ, pedicellatæ, striatæ, semibivalves, paniculatæ. *Indusium* nullum.

IV. FILICES.

721. ACROSTICHUM. *Capsulæ* sparsæ, discum totum inferiorem frondis vel ejus partem occupantes. *Indusium* nullum.

722. POLYPODIUM. *Sori* subrotundi, sparsi. *Indusia* nulla.

723. WOODSIA. *Sori* subrotundi, sparsi. *Indusium* calyciforme, apertum, margine crinitum, includens *Capsulas* pedicellatas.

724. ASPIDIUM. *Sori* subrotundi, sparsi. *Indusium* umbilicatum vel uno latere dehiscens.

725. ONOCLEA. *Capsulæ* partem frondis inferiorem dense tegentes. *Indusia* squamiformia, in formam baccæ contracta non dehiscentia.

726. STRUTHIOPTERIS. *Capsulæ* partem frondis inferiorem dense tegentes. *Indusia* squamiformia, marginalia, interius dehiscentia.

727. ASPLENIUM. *Sori* lineares, transversales, sparsi. *Indusia* e venis lateralibus orta, costam versus dehiscentia.

728. SCOLOPENDRIUM. *Sori* lineares, transversales, sparsi. *Indusium* duplex, ad utrumque latus sori situm.

729. PTERIS. *Sori* continui, lineares, marginales. *Indusium* e margine frondis, inflexum, interius dehiscens.

730. VITTARIA. *Sori* lineares, longitudinales, continui vel in margine vel in disco frondis. *Indusium* duplex, ad utrumque latus sori.

731. BLECHNUM. *Sori* lineares, longitudinales, continui, ad utrumque latus costæ frondis. *Indusium* superficiarium, interius dehiscens.

732. WOODWARDIA. *Sori* oblongi, distincti, recti, ad utrumque latus costæ frondis. *Indusia* superficiaria, fornicata, interius dehiscentia.

733. ADIANTUM. *Sori* oblongi vel subrotundi, *Indusiis* membranaceis, e margine ortis, interius dehiscentibus inserti.

734. CHEILANTHES. *Sori* punctiformes, discreti, marginales, tecti *Indusio* squamiformi marginali interius dehiscente.

735. DICKSONIA. *Sori* punctiformes, marginales, subrotundi, distincti. *Indusium* duplex, alternum superficiarium, exterius dehiscens, alterum marginale interius dehiscens.

736. HYMENOPHYLLUM. *Sorus* marginalis, receptaculo cylindraceo insertus. *Indusium* bivalve, sorum includens.

V. HYDROPTERIDES.

737. ISOETES. *Capsula* membranacea, non dehiscens, frondis basi immersa, 1-locularis. *Semina* angulata, receptaculis pluribus filiformibus inserta.

738. SALVINIA. *Indusia* imbricata, connata, capsulam unilocularem mentientia. *Semina* receptaculo centrali inserta.

739. AZOLLA. *Capsula* unilocularis, radicalis, globosa, polysperma.

I. *GONOPTERIDES.*

713. EQUISETUM. *Gen. pl.* 1614.

1. E. caulibus sterilibus simpliciter ramosis, ramis scabriusculis tetragonis, fructificationibus simplicibus, vaginis cylindraceis inciso-dentatis, dentibus acutis. *Willd. enum.* 1065. *Willd. sp. pl.* 5. *p.* 1. *arvense.*
   Icon. *Schkuhr filic. t.* 167.
   In low and sandy fields: Pensylvania and Virginia. ♃. April, May. *v. v.*

2. E. caulibus sterilibus fructificantibusque duplicato-ramosis, ramis scabriusculis deflexis tetragonis, ramulis subtriquetris. *Willd. enum.* 1065. *Willd. sp. pl.* 5. *p.* 3. *sylvaticum.*
   Icon. *Schkuhr filic. t.* 166. *Fl. dan.* 1182.
   In low shady woods: New York to Virginia. ♃. April—June. *v. v.*

3. E. caulibus subramosis, ramis subquaternis tetragonis glabris, spica cylindracea terminali.—*Willd. sp. pl.* 5. *p.* 4. *uliginosum.*
   In swamps: New York to Virginia. ♃. May. *v. v.* Resembles *E. limosum.*

4. E. caulibus simpliciter ramosis glabris sulcatis, ramis pentagonis apice spiciferis. *Willd. enum.* 1065. *Willd. sp. pl.* 5. *p.* 5. *palustre.*

Icon. *Schkuhr filic. t.* 168, 169. *Fl. dan.* 1183.
On the banks of rivers and in deep swamps: Virginia. ♃. May, June. *v. v.*

scirpoides. 5. E. caulibus simplicibus adscendentibus glabris filiformibus apice spiciferis, vaginis 3-dentatis sphacelatis, dentibus aristatis apice caducis. *Willd. sp. pl.* 5. *p.* 7. *Mich. fl. amer.* 2. *p.* 281.
E. reptans. *Swartz. in litt.*
In shady woods, round the mossy feet of trees: Canada and on the Green mountains, Vermont. ♃. July. *v. v.* A small species.

* *hyemale.* 6. E. caulibus simplicibus erectis scaberrimis apice spiciferis, vaginis discoloribus basi apiceque sphacelatis, dentibus aristatis omnino caducis. *Willd. sp. pl.* 5. *p.* 8.
Icon. *Schkuhr filic. t.* 172.
On the banks of rivers and in swamps: Canada to Virginia. ♃. July, Aug. *v. v.*

II. *STACHYOPTERIDES.*

714. LYCOPODIUM. *Gen. pl.* 1615.

* *Spicis pedunculatis.*

carolinianum. 1. L. caule repente, foliis subdistichis patulis lanceolatis superficialibus adpressis, pedunculo erecto solitario elongato monostachyo, bracteis sublanceolatis.—*Willd. sp. pl.* 5. *p.* 14.
Icon. *Dill. musc. t.* 62. *f.* 5.
In low meadows and woods: Pensylvania to Carolina. ♃. July. *v. v.*

clavatum. 2. L. caule repente, ramis adscendentibus, foliis sparsis enervibus incurvato-setigeris, spicis geminatis cylindricis pedunculatis, squamis ovatis acuminatis eroso-denticulatis. *Willd. sp pl.* 5. *p.* 16.
Icon. *Schkuhr filic. t.* 162. *Fl dan.* 126. *Dill. musc. t.* 58. *f.* 1. *Pluk. alm. t.* 47. *f.* 8.
In dry pine woods: Canada to Pensylvania. ♃. July. *v. v.* It sometimes has only one spike.

complanatum. 3. L. caule erecto, ramis alternis dichotomis, foliis bifariis connatis apice patentibus, superficialibus solitariis adpressis, pedunculis quadrifidis tetrastachyis, spicis teretibus cylindricis. *Willd. sp. pl.* 5. *p.* 19.

Icon. *Fl. dan.* 78. *Dill. musc. t.* 59. *f.* 3.
In shady woods, on rocky soil: Canada to Virginia. ♃. July. *v. v.*

4. L. caulibus erectis, ramis alternis dichotomis subcompressis, foliis lanceolatis acutis quadrifariis adpressis, pedunculis solitariis elongatis tristachyis, spicis teretibus, squamis subrotundis acuminatis. *tristachyum.*
On high mountains in Virginia, near the Sweet-springs. ♃. July. *v. v.* This species is intermediate between the preceding and following one.

5. L. caule erecto, ramis alternis dichotomis, foliis lanceolatis acutis quadrifariis adpressis convexis, pedunculis solitariis monostachyis, spicis teretibus, squamis subcordatis acuminatis.—*Willd. sp. pl.* 5. *p.* 20. *sabinæfolium.*
L. alpinum. *Mich. fl. amer.* 2. *p.* 282.
Icon. *Dill. musc. t.* 58. *f.* 2?
In Canada. *Michaux.* ♃. July. +.

** *Spicis sessilibus; foliis caulem circumobsidentibus.*

6. L. caule erecto, ramis alternis confertis dichotomis patentibus, foliis sparsis sexfariis lineari-lanceolatis patulis, spicis solitariis terminalibus sessilibus. *Willd. sp. pl.* 5. *p.* 21. *dendroideum.*
L. obscurum. *Sp. pl.* 1566.
Icon. *Schkuhr filic. t.* 164. *Dill. musc. t.* 64. *f.* 12.
In dry shady woods: Canada to Carolina. ♃. July. *v. v.* This and some other species are known by the name of *Ground Pine*, and made use of for ornamenting rooms and chimney-pieces, it forming, when properly tied up, beautiful festoons.

7. L. caule repente, ramis adscendentibus basi bis bipartitis, ramulis simplicibus, foliis quinquefariis lineari-lanceolatis mucronatis apice serrulatis patentibus, ad incrementa annua contractis, spicis solitariis sessilibus terminalibus. *Willd. sp. pl.* 5. *p.* 23. *annotinum.*
Icon. *Schkuhr filic.* 162. *Fl. dan.* 127. *Dill. musc. t.* 63. *f.* 9.
In shady woods: Canada to Pensylvania. ♃. July. *v. v.*

8. L. caule subramoso repente, ramis simplicibus solitariis erectis apice monostachyis, foliis linearibus sparsis acutis integerrimis supra curvis, spica sessili foliosa. *Willd. sp. pl.* 5. *p.* 25. *inundatum.*
Icon. *Schkuhr filic.* 160. *Fl. dan.* 336. *Dill. musc. t.* 61. *f.* 7.

In cedar swamps and overflowed woods: Canada to New York. ♃. July. *v. v.*

alopecuroides. 9. L. caule repente subramoso, ramis subsimplicibus elongatis adscendentibus apice monostachyis, foliis lineari-subulatis basi ciliato-dentatis patulis, spica sessili foliosa. *Willd. sp. pl.* 5. *p.* 26.

Icon. *Schkuhr filic. t.* 160. *Dill. musc. t.* 62. *f.* 6.

In sphagnous swamps: New York to Carolina. ♃. July. *v. v.* It is known by the name of *Walking Fern.*

selaginoides. 10. L. caule repente, ramis adscendentibus simplicibus, foliis sparsis lanceolatis patulis ciliato-denticulatis, spicis terminalibus solitariis foliosis sessilibus. *Willd. sp. pl.* 5. *p.* 28.

Icon. *Schkuhr filic. t.* 165. *Fl. dan.* 70. *Dill. musc. t.* 68. *f.* 1.

In mossy woods: Canada and New Hampshire. ♃. July. *v. v.* The American plant is smaller than the European.

rupestre. 11. L. caule repente ramoso, ramis subdivisis adscendentibus, foliis sparsis imbricatis lineari-lanceolatis ciliatis apice piliferis, spicis solitariis sessilibus terminalibus. *Willd. sp. pl.* 5. *p.* 30.

Icon. *Schkuhr filic. t.* 165. *Dill. musc. t.* 63. *f.* 11.

On rocks: Canada to Virginia, and on the Carolina mountains. ♃. July. *v. v.* A small species.

*** *Spicis sessilibus; foliis distichis.*

albidulum. 12. L. foliis bifariis ovatis acutis denticulatis, superficialibus alternis distichis adpressis, spicis terminalibus elongatis sessilibus tetragonis. *Willd. sp. pl.* 5. *p.* 37.

In moist shady places: Pensylvania. ♃. Aug. *v. v.* A very small, moss-like species, very much resembling the following.

apodum. 13. L. foliis bifariis subrotundo-ovatis acutis planis denticulatis cum superficialibus acuminatis alternantibus, caule ramoso basi radicante, spicis terminalibus sessilibus subsolitariis. *Willd. sp. pl.* 5. *p.* 38.

Icon. *Dill. musc. t.* 64. *f.* 3.

In shady woods: Pensylvania to Florida. ♃. July. *v. v.*

**** *Capsulis axillaribus.*

lucidulum. 14. L. foliis octofariis lineari-lanceolatis denticulatis acutis patenti-reflexis, caule adscendente bifido. *Willd. sp. pl.* 5. *p.* 51.

L. reflexum. *Schkuhr filic. t.* 159.
Icon. *Dill. musc. t.* 56. *f.* 2.
In low sphagnous grounds and on the banks of shady rivulets: Canada to Carolina. ♃. July. *v. v.* Resembles *L. Selago*; it frequently bears bulbs instead of capsules.

715. BERNHARDIA. *Willd. act. acad. erford.* 1802. *p.* 11.

1. B. caule nudo dichotomo ramisque triquetris.—*Willd. sp. pl.* 3. *p.* 56. *dichotoma.*
Hoffmannia aphylla. *Wild. in Roem. et Usteri bot. mag.* 6. *p.* 17.
Psilotum triquetrum. *Swartz. synop. filic.* 187.
Psilotum floridanum. *Mich. fl. amer.* 2. *p.* 281.
Lycopodium nudum. *Sp. pl.* 1564.
Icon. *Schkuhr filic. t.* 165. b. *Dill. musc. t.* 64. *f.* 4.
On the cliffs of rocks, near the sea-coast, in Florida. ♃. June. *v. s.*

716. OPHIOGLOSSUM. *Gen. pl.* 1621.

1. O. spica caulina, fronde ovata obtusa, arcte reticulata. *Willd. sp. pl.* 5. *p.* 58. *vulgatum.*
Icon. *Schkuhr filic. t.* 153. *Fl. dan.* 147.
In low grassy open places, in woods and on the sides of hills: New York to Pensylvania. ♃. May. *v. v.*

2. O. spica caulina, fronde subcordato-ovata obtusa, radice bulbosa. *Willd. sp. pl.* 5. *p.* 60. *bulbosum.*
O. crotalophoroides. *Walt. fl. car.* 256.
In low sandy grounds: New Jersey to Carolina. ♃. May. *v. v.*

717. BOTRYCHIUM. *Swartz. synop. filic.* 8.

1. B. scapo nudo, frondibus glabris radicalibus tripartito-bipinnatis, foliolis lunatis crenatis, spicis pinnatis.—*Willd. sp. pl.* 5. *p.* 63. *fumarioides.*
B. lunarioides. *Swartz. synop. filic.* 172.
Botrypus lunarioides. *Mich. fl. amer.* 2. *p.* 274.
Osmunda biternata. *Lam. encycl.* 4. *p.* 608.
Icon. *Schkuhr filic. t.* 157.
In pastures and open woods: New York to Carolina. ♃. June. *v. v.*

2. B. scapo inferne unifrondoso, fronde subbiternata, foliolis oblongo-lanceolatis serrulatis basi dilatatis inæqualiter cordatis, spicis bipinnatis.—*Willd. sp. pl.* 5. *p.* 63. *obliquum.*

In open woods: Pensylvania and Virginia. ♃. June, July. *v. v.* Resembles the preceding very much, and is probably only a variety.

dissectum. 3. B. scapo inferne unifrondoso, fronde tripartito-bipinnatifida, laciniis linearibus bipartitis apice bidentatis. *Willd. sp. pl.* 5. *p.* 64.

Icon. *Schkuhr filic. t.* 158. *Pluk. amalth. t.* 427. *f.* 5.

In pastures and open dry woods: New York to Florida. ♃. June. *v. v.*

virginicum. 4. B. hirsutum; scapo medio frondoso, fronde subterna tripartito-bipinnatifida, foliolis inciso-pinnatifidis, laciniis obtusis subtridentatis, spicis bipinnatis divaricatis.—*Willd. sp. pl.* 5. *p.* 64.

Botrypus virginicus. *Mich. fl. amer.* 2. *p.* 274.

Osmunda virginica. *Sp. pl.* 1579.

Osmunda multifida. *Gmel. nov. com. petrop.* 12. *t.* 11. *f.* 1.

Icon. *Schkuhr filic. t.* 156.

In shady woods, on rich vegetable soil: Canada to Carolina. ♃. June, July. *v. v.* This is the largest of the species here described; it is known by the name of *Rattle Snake Fern*, probably from the circumstance of growing near the places where those venomous animals generally are found.

gracile. 5. B. glabrum; scapo medio frondoso, fronde tripartito-bipinnatifida, laciniis inciso-subpinnatifidis acutis subdentatis, spicis gracilibus pinnatis erectis.

In shady fertile woods: Virginia. ♃. June. *v. v.* This species approaches near to the preceding in its first appearance, but is by far a smaller and more slender plant, besides the other distinctions.

III. *SCHISMATOPTERIDES.*

718. HYDROGLOSSUM. *Willd. sp. pl.* 5. *p.* 77.

Ophioglossum. *Linn.*

palmatum. 1. H. caule flexuoso-scandente, frondibus conjugatis cordatis quinquelobo-palmatis, lobis lanceolatis integerrimis obtusis obsolete sinuatis, spicillis terminalibus composite paniculatis oblongo-linearibus.—*Willd. sp. pl.* 5. *p.* 84.

Lygodium palmatum. *Swartz. synop. filic.* 154.
Cteisium paniculatum. *Mich. fl. amer.* 2. *p.* 275.
Icon. *Schkuhr filic.* 140. *Willd. act. acad. erford.* 1802. *t.* 1. *f.* 2.
In low copses, climbing among small shrubs. ♃. July. *v. v.* This is the most beautiful and singular of all the North American ferns, and is a highly ornamental plant when cultivated in pots.

719. SCHIZÆA. *Smith act. taur.* 5. *p.* 419.

1. S. fronde simplicissima lineari-compressa, spicis conglomeratis inflexis secundis. ***pusilla.***
In barren sandy but moist grounds: New Jersey, Burlington county, near a place called Quaker Bridge. ♃. Aug. Sept. *v. v.* This singular little fern is very scarce, and so small that it generally escapes the notice of the botanist, unless accident points it out.

720. OSMUNDA. *Gen. pl.* 1622.

1. O. frondibus sterilibus pinnatis, pinnis pinnatifidis, laciniis ovato-oblongis obtusis integerrimis, stipite lanato, fructificantibus bipinnatis lanuginosis.—*Willd. sp. pl.* 5. *p.* 98. ***cinnamomea.***
Icon. *Schkuhr filic. t.* 146. *Moris. hist.* 3. *s.* 14. *t.* 4. *f.* 3.
In low open woods and exsiccated swamps: New England to Florida. ♃. June—Aug. *v. v.* This is a fern of the size and habit of *Polypodium Filix mas*; the fertile stems are covered with a cinnamon-coloured down.

2. O. frondibus pinnatis ferrugineo-tomentosis, pinnis pinnatifidis apice coarctato-fructificantibus.—*Willd. sp. pl.* 5. *p.* 96. ***Claytoniana.***
In Virginia. *Clayton.* ♃. April. +. This is probably only a variety of the preceding. I have no specimen in my herbarium; but recollect very well that the fructiferous stems of that species very frequently grow out into leaves, which may have given rise to the formation of the present species.

3. O. frondibus pinnatis glabris, pinnis oppositis pinnatifidis, laciniis oblongis acutiusculis integerrimis, pinnis aliquot intermediis fructificantibus.—*Willd. sp. pl.* 5. *p.* 96. ***interrupta.***

O. basilaris. *Sprengel. aul.* 3. *p.* 160.
Icon. *Schkuhr filic. t.* 144.
In low and swampy grounds: Canada to Virginia, and in the western territories. ♃. June, July. *v. v.* This singular fern is about two feet high.

spectabilis. 4. O. frondibus bipinnatis, pinnulis oblongis obtusiusculis argute serrulatis basi truncatis inæqualibus, omnibus alternis, panicula bipinnata fructificante in apice frondis.—*Willd. sp. pl.* 5. *p.* 98.
O. regalis β. *Sp. pl.* 1521. *Mich. fl. amer.* 2. *p.* 273.
Icon. *Pluk. alm. t.* 184. *f.* 4.
In mountain swamps: Canada to Carolina. ♃. July. *v. v.* A very elegant species.

IV. *FILICES.*

721. ACROSTICHUM. *Gen. pl.* 1625.

aureum. 1. A. frondibus pinnatis, pinnis alternis oblongo-lanceolatis integerrimis, basi cuneatis æqualibus, omnibus acuminatis, superioribus fructificantibus. *Willd. sp. pl.* 5. *p.* 116.
Icon. *Schkuhr filic. t.* 1. *Petiv. fil. t.* 8. *f.* 5. *Plum. amer. t.* 7. *Pluk. alm. t.* 288. *f.* 2.
In deep swamps near the sea-coast: Florida. ♃. July. *v. v.* This is the largest of the North American ferns, the leaves being sometimes above five feet long.

722. POLYPODIUM. *Swartz. synop. filic.* 3.

vulgare. 1. P. frondibus profunde pinnatifidis, laciniis lineari-lanceolatis obtusis crenulatis approximatis, superioribus sensim minoribus, soris solitariis, caudice paleaceo. *Willd. sp. pl.* 5. *p.* 172.
Icon. *Schkuhr filic. t.* 11. *Plum. fil. t. A. f.* 2.
On rocks and old rotten trees: Canada to Carolina. ♃. July. *v. v.*

virginianum. 2. P. frondibus profunde pinnatifidis, laciniis lanceolatis obtusis integerrimis approximatis, superioribus sensim minoribus, soris solitariis, caudice nudo. *Willd. sp. pl.* 5. *p.* 174.
Icon. *Petiv. filic. t.* 7. *f.* 9. *Plum. amer. t.* 36. *filic. t.* 77.

On the trunks of trees: Virginia? ♃. July. +. Willdenow doubts whether this is really a native of Virginia, and I believe with much propriety, as I likewise never have seen any other species than *P. vulgare* under the name of *P. virginicum*.

3. P. frondibus profunde pinnatifidis, laciniis alternis linearibus integerrimis obtusis, superioribus sensim minoribus, subtus stipiteque squamulosis, apice fructiferis, soris solitariis. *Willd. sp. pl.* 5. *p.* 174. *incanum.*

P. ceteraccinum. *Mich. fl. amer.* 2. *p.* 271.

Acrostichum polypodioides. *Sp. pl.* 1525.

Icon. *Schkuhr filic. t.* 11. *b.*

On rocks and trunks of old trees: Virginia to Florida, Kentucky and Tennassee; on the rocks of the Natural bridge, Virginia, and on the stems of trees in the Dismal-swamp. *Ph.* July. *v. v.*

4. P. frondibus bipinnatifidis glabriusculis, pinnis duabus infimis deflexis, laciniis lanceolatis obtusis ciliatis, pinnarum inferiorum inciso-crenatis superiorum integerrimis, infimis adnato-decurrentibus, soris minutis solitariis. *Willd. sp. pl.* 5. *p.* 200. *hexagonopterum.*

Icon. *Pluk. alm. t.* 284. *f.* 2. bona. *Schkuhr filic. t.* 20. *b.*

In shady moist woods on fertile soil: New York to Carolina. ♃. July. *v. v.* The whole leaf forms a triangle in its circumference; the stem is smooth.

5. P. frondibus bipinnatifidis ciliatis, pinnis oppositis contiguis adnatis, pinnulis subellipticis, stipite paleaceo, soris minutis. *Willd. sp. pl.* 5. *p.* 200. *connectile.*

In shady woods: Canada to New York. ♃. July. *v. v.* Resembles the preceding.

6. P. frondibus ternatis bipinnatis rectis rigidulis, laciniis obtusiusculis subintegerrimis, soris marginalibus confluentibus. *Willd. sp. pl.* 5. *p.* 210. *calcareum.*

P. Dryopteris. *Bolton filic.* 53. *t.* 1.

Nephrodium Dryopteris. *Mich. fl. amer.* 2. *p.* 270.

In shady beech-woods: Canada to Pensylvania. ♃. July. *v. v.* This is a very rare fern in Pensylvania. I only found it on the western mountains in deep shady beech forests.

723. WOODSIA. *Brown in linn. trans.* 11. *p.* 173.

hyperborea. 1. W. frondibus pinnatis, pinnis tripartitis vel pinnatifido-incisis cuneiformibus obtusis dentatis subtus hirtis, soris solitariis demum confluentibus.—*Brown l. c.* cum icone.

Polypodium hyperboreum. *Willd. sp. pl.* 5. *p.* 197.
Polypodium arvonicum. *Smith fl. brit.* 3. *p.* 1115.
Acrostichum ilvense. *Huds. angl.* 451.
Acrostichum alpinum. *Bolton filic.* 76. *t.* 42.
Acrostichum hyperboreum. *Liljeblad act. holm.* 1793. *p.* 201. *t.* 8.
Icon. *Schkuhr filic. t.* 17. *b. Pluk. phytogr. t.* 89. *f.* 5. *Moris. hist.* 3. *s.* 14. *t.* 3. *f.* 23.
In the clefts of rocks: Canada and on the high mountains of Pensylvania and Virginia. ♃. July. *v. v.* A small fern growing in large tufts, and covered with long brown chaffy hair.

ilvensis. 2. W. frondibus bipinnatifidis, laciniis oblongis obtusis inferioribus repandis, superioribus integerrimis subtus hirtis, soris submarginalibus demum confluentibus, stipite superne villoso.—*Brown l. c.*

Polypodium ilvense. *Willd. sp. pl.* 5. *p.* 198.
Polystichum Marantæ. *Roth fl. germ.* 3. *p.* 92.
Acrostichum ilvense. *Sp. pl.* 1528.
Icon. *Schkuhr filic. t.* 19. *Fl. dan.* 391.
On rocks: Canada to Virginia. ♃. July. *v. v.* Resembles the preceding very much; but the leaves are smaller divided and covered with fine woolly hair, not chaffy as in the other.

724. ASPIDIUM. *Swartz. synop. filic.* 3.

Nephrodium. *Mich. fl. amer.* 2. *p.* 266.

* *Frondibus ternatis.*

cicutarium. 1. A. frondibus ternatis, foliolis pinnatifidis, laciniis acuminatis sinuato-pinnatifidis integerrimis, lateralium infima et exteriore lacinia elongata, soris serialibus. *Willd. sp. pl.* 5. *p.* 215.

Polypodium cicutarium. *Sp. pl.* 1549.
Polypodium appendiculatum. *Swartz. fl. ind. occid.* 3. *p.* 1677.
Icon. *Pluk. alm. t.* 289. *f.* 4. & *t.* 296. *f.* 2.
On rocks in the mountains of Virginia. ♃. +.

** *Frondibus pinnatis.*

2. A. frondibus pinnatis, pinnis lanceolatis falcatis acutis ciliato-serratis, basi superiore mucronato-auriculatis, inferiore cuneatis, superioribus fructificantibus minoribus, stipite rachique paleaceis, soris solitariis demum confluentibus. *Willd. sp. pl.* 5. *p.* 225. *acrostichoides.*
A. auriculatum. *Schkuhr filic.* 31. *t.* 30. *excl. synon.*
Nephrodium acrostichoides. *Mich. fl. amer.* 2. *p.* 267.
On rocks, in shady low places: New England to Carolina. ♃. June—Aug. *v. v.* Resembles *N. auriculatum.*

*** *Frondibus subbipinnatis; indusiis dimidiatis reniformibus.*

3. A. frondibus pinnatis, pinnis lineari-lanceolatis pinnatifidis, laciniis oblongis obtusiusculis subintegerrimis ciliatis, soris marginalibus, stipite lævi.—*Willd. sp. pl.* 5. *p.* 248. *noveboracense.*
A. thelypterioides. *Swartz. synop. filic.* 57.
Nephrodium thelypterioides. *Mich. fl. amer.* 2. *p.* 267.
Polypodium noveboracense. *Sp. pl.* 1552.
Icon. *Schkuhr filic. t.* 46.
On river sides and the banks of ditches and ponds: Canada to Carolina. ♃. July. *v. v.*

4. A. frondibus pinnatis, pinnis lineari-lanceolatis pinnatifidis glabris, laciniis ovatis acutis integerrimis, soris marginalibus contiguis demum confluentibus. *Willd. sp. pl.* 5. *p.* 249. *Thelypteris.*
Polypodium Thelypteris. *Mant.* 505.
Polystichum Thelypteris. *Roth fl. germ.* 3. *p.* 77.
Acrostichum Thelypteris. *Sp. pl.* 1528.
Icon. *Schkuhr filic. t.* 52. *Fl. dan.* 760. *Engl. bot.* 1018.
In low grassy fields and swamps: Canada to Virginia. ♃. July. *v. v.* It is very seldom found with fructifications; the leaves are smaller than in the preceding.

5. A. frondibus lanceolato-ovatis glabris pinnatis, pinnis subcordato-oblongis pinnatifidis, laciniis oblongis obtusis dentato-serratis, stipite paleaceo.—*Willd. sp. pl.* 5. *p.* 252. *cristatum.*
Polypodium cristatum. *Sp. pl.* 1551.
Icon. *Schkuhr filic. t.* 37. *Afzel. act. holm.* 1787. *t.* 9.

Callipteris. β. A. majusculum; pinnis alternis, laciniis oblongis inæqualiter adpresso-serratis, fronde apice fructificante.
Polypodium Callipteris. *Ehrh. beitr.* 3. *p.* 77.
Polystichum cristatum. *Roth germ.* 3. *p.* 84.

lancastriense. γ. A. pinnis suboppositis, laciniis triangulari-ovatis acute serratis, stipite nudo.—*Willd. sp. pl.* 5. *p.* 261. *Schkuhr filic. t.* 41.
In moist rocky situations: New York to Virginia. ♃. July. *v. v.* Of middle size.

**** *Frondibus bipinnatis triplicato-pinnatisve; indusiis dimidiatis reniformibus.*

obtusum. 6. A. frondibus bipinnatis, pinnulis oblongis obtusis superioribus coadunatis dentato-crenatis, rachi superne pubescente. *Willd. sp. pl.* 5. *p.* 254.
Polypodium obtusum. *Swartz. synop. filic.* 39. *Schkuhr filic.* 18.
Icon. *Schkuhr filic. t.* 21. & 43. *b.*
In clefts of rocks: Pensylvania and Virginia. ♃. July. *v. v.* A small species, not above four or five inches high.

aculeatum. 7. A. frondibus bipinnatis, pinnulis ovatis subfalcatis acutis mucronato-serratis, basi superiore truncatis, inferiore abbreviato-cuneatis, superioribus fructificantibus, stipite rachique paleaceis. *Willd. sp. pl.* 5. *p.* 258.
Polypodium aculeatum. *Sp. pl.* 1552.
Polystichum aculeatum. *Roth fl. germ.* 3. *p.* 79.
Icon. *Schkuhr filic. t.* 39. & 40. *Bolt. filic. t.* 56. *Pluk. alm. t.* 180. *f.* 1.
In shady rocky places, on the Green mountains, Vermont. ♃. Aug. *v. v.* The size of No. 5, of a shining and strong texture.

marginale. 8. A. frondibus bipinnatis, pinnulis oblongis obtusis decurrentibus crenatis, crenis baseos profundioribus, soris marginalibus, stipite paleaceo. *Willd. sp. pl.* 5. *p.* 259.
Polypodium marginale. *Sp. pl.* 1522.
Nephrodium marginale. *Mich. fl. amer.* 2. *p.* 267.
Icon. *Schkuhr filic. t.* 45. *b.*
In rocky shady places: Canada to Carolina. ♃. July. *v. v* Resembles the following.

Filix mas. 9. A. frondibus bipinnatis, pinnulis oblongis obtusis serratis, serraturis muticis, soris costæ mediæ approximatis, stipite rachique paleaceis. *Willd. sp. pl.* 5. *p.* 259.

Polypodium Filix mas. *Sp. pl.* 1551.
Polystichum Filix mas. *Roth. fl. germ.* 3. *p.* 82.
Icon. *Schkuhr filic. t.* 44. *Bolt. filic. t.* 24. *Moris. hist.* 3. *s.* 14. *t.* 3. *f.* 6.

β. A. pinnulis eroso-serratis remotioribus.—*Schkuhr filic. t.* 45. erosum.

In shady pine forests: New Jersey to Virginia. *β.* in Carolina. ♃. July. *v. v.* From two to three feet high; the leaflets are more obtuse, and more frequently doubly serrated, than in the European plant.

10. A. frondibus bipinnatis, pinnulis linearibus pinnatifido-incisis, laciniis apice submucronato-serratis, stipite paleaceo. *Willd. sp. pl.* 5. *p.* 262. *intermedium.*

In Pensylvania. *Muhlenberg.* ♃. +. Resembles the following in several respects very much.

11. A. frondibus bipinnatis, pinnulis oblongis decurrentibus confluentibus inciso-dentatis, laciniis mucronato-serratis, stipite paleaceo, indusiis glandulosis. *Willd. sp. pl.* 5. *p.* 262. *spinulosum.*

Polypodium spinulosum. *Retz. prodr. fl. scand. n.* 1295.
Polypodium cristatum. *Hoffm. fl. germ.* 2. *p.* 8.
Polystichum spinosum. *Roth. fl. germ.* 3. *p.* 91.
Icon. *Schkuhr filic. t.* 48. *Fl. dan.* 707. *Fr. Mill. icon. t.* 2. *f.* 2.

In shady woods, in fertile soil: Pensylvania to Virginia. ♃. July. *v. v.* A large species.

12. A. frondibus bipinnatis, pinnulis oblongis distinctis pinnatifido-incisis, laciniis mucronato-serratis, stipite paleaceo, indusiis lævibus. *Willd. sp. pl.* 5. *p.* 263. *dilatatum.*

Polypodium dilatatum. *Hoffm. fl. germ.* 2. *p.* 7.
Polypodium aristatum. *Villars fl. delph.* 3. *p.* 844.
Polypodium cristatum. *Huds. angl.* 457.
Polystichum multiflorum. *Roth. fl. germ.* 3. *p.* 87.
Nephrodium cristatum. *Mich. fl. amer.* 2. *p.* 269.
Icon. *Schkuhr filic. t.* 47. *Bolt. filic. t.* 23. *Fr. Mill. ic. t.* 2. *f.* 4. *Pluk. alm. t.* 181. *f.* 2.

In shady rocky woods: Pensylvania and Virginia. ♃. July. *v. v.* Resembles *A. Filix femina*; it is larger, broader, and more compound in its leaves.

***** *Frondibus bipinnatis triplicato-pinnatisve; indusiis lateralibus.*

13. A. frondibus bipinnatis oblongo-lanceolatis, pinnulis oppositis oblongis obtusis serratis, inferioribus pinnatifi- *bulbiferum.*

dis, rachi bulbifera, soris subrotundis. *Willd. sp. pl.* 5. *p.* 275.

Polypodium bulbiferum. *Sp. pl.* 1553.

Nephrodium bulbiferum. *Mich. fl. amer.* 2. *p.* 268.

Icon. *Schkuhr filic. t.* 57. *Corn canad.* 5. *Moris. hist.* 3. *s.* 14. *t.* 3. *f.* 10.

In shady woods, about rocks: Canada to Pensylvania. ♃. July. *v. v.* The leaf is narrow, and produces generally some small bulbs on its midrib.

asplenioides. 14. A. frondibus bipinnatis, pinnulis lineari-lanceolatis inciso-serratis, serraturis bi- s. tridentatis terminalibus acutioribus, soris oblongis lunatis. *Willd. sp. pl.* 5. *p.* 276.

Nephrodium asplenioides. *Mich. fl. amer.* 2. *p.* 268.

Polypodium pensylvanicum. *Muhlb. in litt.*

Asplenium Athyrium. *Sprengel. anleit.* 3. *p.* 113.

Icon. *Schkuhr filic. t.* 78.

In shady woods, on the banks of rivulets and ditches: New England to Carolina. ♃. July. *v. v.* A tall species, very much resembling the following in many respects.

Filix femina. 15. A frondibus bipinnatis, pinnulis oblongo-lanceolatis inciso-serratis, serraturis bi- s. tridentatis acutiusculis, soris oblongis rectis. *Willd. sp. pl.* 5. *p.* 276.

A. alpestre. *Schkuhr filic p.* 58.

Polypodium Filix femina. *Sp. pl.* 1551.

Polypodium molle. *Schreb. spicil.* 70.

Polypodium dentatum, incisum et trifidum. *Hoffm. fl. germ* 2 *p* 7.

Athyrium molle, trifidum, ovatum et Filix femina. *Roth. fl. germ.* 3. *p.* 61—65.

Icon. *Schkuhr filic. t.* 58. 59. & 60. *Pluk. phytogr. t.* 180. *f.* 4. *Moris. hist.* 3. *s.* 14. *t.* 3. *f.* 8.

In low shady grounds: Canada to Virginia. ♃. July. *v. v.*

angustum. 16. A. frondibus bipinnatis, pinnulis lanceolatis inciso-serratis, serraturis subbidentatis, infima superiore elongata, soris oblongis sublunatis. *Willd. sp. pl.* 5 *p.* 277.

Nephrodium Filix femina. *Mich. fl. amer.* 2. *p.* 268.

In shady low woods: Canada to Pensylvania. ♃. July. *v. v.* Resembles the preceding.

punctilobum. 17. A. frondibus bipinnatis, pinnulis decurrentibus ovato-oblongis pinnatifidis, laciniis subquadridentatis, soro

solitario instructis, rachibus pubescentibus, stipite glabro. *Willd. sp. pl.* 5. *p.* 279.
Nephrodium punctilobulum. *Mich. fl. amer.* 2. *p.* 268.
In shady woods, on the banks of small rivulets: Canada to Virginia. ♃. July. *v. v.* From two to three feet high.

18. A. frondibus bipinnatis, pinnulis decurrentibus ovato-oblongis pinnatifidis, laciniis dentatis, soris sparsis. *Willd. sp. pl.* 5. *p.* 279. *atomarium.*
In Pensylvania. *Muhlenberg.* ♃. +. Not much above a span high; fructification small.

19. A. frondibus bipinnatis, pinnulis ovatis decurrentibus dentatis, soris solitariis juxta dentes pinnularum. *Willd. sp. pl.* 5. *p.* 279. *tenue.*
Nephrodium tenue. *Mich. fl. amer.* 2. *p.* 269.
In clefts of rocks: Canada to Virginia. ♃. July. *v. v.* A small species; fructifications large.

20. A. frondibus bipinnatis, pinnulis subtus paleaceo-setosis oblongis obtusis crenatis coadunatis, soris demum confluentibus. *Willd. sp. pl.* 5. *p.* 282. *rufidulum.*
Nephrodium rufidulum. *Mich. fl. amer.* 2. *p.* 269.
On rocks: Canada to Pensylvania. ♃. July. *v. v.* A small species, growing in large tufts; it resembles *Woodsia hyperborea* very much.

725. ONOCLEA. *Willd. in mag. ges. naturf. fr. z. berl.* 1809. *p.* 160.

1. O. frondibus sterilibus pinnatis, pinnis lanceolatis acutis inciso-dentatis, superioribus coadunatis, fructificantibus bipinnatis, pinnulis recurvato-globosis glabris, rachi glabra.—*Willd. sp. pl.* 5. *p.* 287. *sensibilis.*
Icon. *Schkuhr filic. t.* 102. *Pluk. mant. t.* 404. *f.* 2. *Breyn. cent. t.* 56. *f.* B.
In low pastures and open woods: New York to Florida. ♃. July. *v. v.* About a foot high; leaves pale green.

2. O. frondibus sterilibus pinnatis, pinnis oppositis pinnatifidis, lobis rotundatis: inferioribus sensim minoribus, superioribus coadunatis, fructificantibus bipinnatis, pinnulis incisis recurvato-globosis villosis, rachi squamosa.—*Schkuhr filic. p.* 95. *t.* 103. *obtusilobata.*
In low grounds: Pensylvania. ♃. July. *v. v.* Not so large as the preceding.

726. STRUTHIOPTERIS. *Willd. in mag. ges. nat. fr. z. berl.* 1809. *p.* 160.

pensylvanica. 1. S. frondibus sterilibus bipinnatifidis, laciniis integerrimis obtusis, infima elongata acuta. *Willd. sp. pl.* 5. *p.* 289.
Onoclea nodulosa. *Schkuhr filic. p.* 96. *t.* 104.
In Pensylvania. *Muhlenberg.* ♃. +. Resembles *S. germanica.*

727. ASPLENIUM. *Swartz. synop. filic. p.* 4.

rhizophyllum. 1. A. frondibus lanceolatis stipitatis subcrenatis, basi auriculato-cordatis, apice longissimo lineari-filiforme radicante. *Willd. sp. pl.* 5. *p.* 305.
Icon. *Pluk. alm. t.* 105. *f.* 3. *Petiv. gazoph. t.* 105. *f.* 7. *Moris. hist.* 3. *s.* 14. *t.* 5. *f.* 14.
On wet shady rocks: Canada to Carolina. ♃. July. *v. v.* This fern is highly ornamental to rock-works, and very singular in its striking root at the elongated points of the leaves.

angustifolium. 2. A. frondibus pinnatis, pinnis alternis, superioribus suboppositis, lineari-lanceolatis subrepandis, basi superiore truncatis, inferiore leviter rotundatis. *Willd. sp. pl.* 5. *p.* 313.
A. pycnocarpon. *Sprengel. anleit.* 3. *p.* 112.
Icon. *Schkuhr filic. t.* 67. & 69. *Moris. hist.* 3. *s.* 14. *t.* 2. *f.* 25.
In shady woods, on the banks of rivers: western parts of New York and Pensylvania. ♃. July. *v. v.* A very elegant fern about a foot high.

ebeneum. 3. A. frondibus pinnatis, pinnis sessilibus lanceolatis serrulatis basi cordatis, sursum auriculatis. *Willd. sp. pl.* 5. *p.* 329.
A. polypodioides. *Swartz. synop. filic.* 79. & 272.
A. trichomanoides. *Mich. fl. amer.* 2. *p.* 265.
Acrostichum platyneuron. *Sp. pl.* 1527. *excl. synon.*
Icon. *Schkuhr filic. t.* 73. *Pluk. alm. t.* 287. *f.* 2. *et t.* 89. *f.* 8. *Moris. hist.* 3. *s.* 14. *t.* 2. *f.* 12.
In clefts of rocks: New England to Carolina. ♃. July. *v. v.* A small species.

melanocaulon. 4. A. frondibus pinnatis, pinnis subrotundis obtusis crenatis basi cuneatis, stipite discolore. *Willd. enum.* 1072. *Willd. sp. pl.* 5. *p.* 332.

A. trichomanes. *Mich. fl. amer.* 2. *p.* 264.
On rocks: Canada to Carolina. ♃. July. *v. v.* Very small: stem polished, black.

5. A. frondibus pinnatis, pinnis sessilibus lanceolatis acuminatis profunde pinnatifidis, laciniis oblongis obtusis obtuse-serratis, soris parallelis demum confluentibus. —*Willd. sp. pl.* 5. *p.* 336. *thelypterioides.*
A. acrostichoides. *Swartz. synop. filic.* 82. & 275.
Icon. *Schkuhr filic. t.* 76. *b.*
In shady woods on the sides of rivulets: Pensylvania to Carolina. ♃. July. *v. v.* Resembles *Aspidium Thelypteris* very much; it is from eighteen inches to two feet high.

6. A. frondibus basi bipinnatis, apice simpliciter pinnatis, pinnulis rhombeo-oblongis obtusis, apice obtuse denticulatis. *Willd. sp. pl.* 5. *p.* 341. *Ruta muraria.*
Icon. *Schkuhr filic. t.* 80. *b.* *Fl. dan.* 190.
In clefts of rocks: New York to Carolina. ♃. July. *v. v.* The American plant is very small, scarcely ever exceeding an inch or two in height.

7. A. frondibus glabris bipinnatis, pinnulis lanceolatis pinnatifidis, laciniis tri- vel bidentatis.—*Willd. sp. pl.* 5. *p.* 342. *montanum.*
A. Adiantum nigrum. *Mich. fl. amer.* 2. *p.* 265.
In clefts of rocks, on the mountains of Virginia and Carolina. ♃. July. *v. v.* A much smaller plant than *A. nigrum*, to which it has some resemblance.

728. SCOLOPENDRIUM. *Smith act. taur.* 5. *p.* 410. *t.* 9. *f.* 2.

1. S. frondibus lato-lanceolatis basi cordatis, stipite paleaceo. *Willd. sp. pl.* 5. *p.* 348. *officinarum.*
Asplenium Scolopendrium. *Sp. pl.* 1537.
Icon. *Schkuhr filic. t.* 83. *Pluk. phytogr. t.* 248. *f.* 1.
In shady woods, among loose rocks in the western parts New York, near Onondago, on the plantations of J. Geddis, Esq. ♃. July. *v. v.* This species I have seen in no other place but that here mentioned, neither have I had any information of its having been found in any other part of North America.

729. PTERIS. *Gen. pl.* 1626.

pedata. 1. P. frondibus profundissime quinquelobo-palmatis, lobis pinnatifidis, laciniis lineari-lanceolatis acutis, infima lobi intermedii utrinque pinnatifida, lobo intermedio basi longissime cuneato, sinubus acutis.—*Willd. sp. pl.* 5. *p.* 358.

Icon. *Schkuhr filic. t.* 100. *Plum. amer. t.* 34. *fil. t.* 152. *Petiv. filic. t.* 8. *f.* 12. *Pluk. alm. t.* 286. *f.* 5.

On rocks: Virginia. ♃. July. *v. s.* About six inches high.

atropurpurea. 2. P. frondibus pinnatis, pinnis inferioribus ternatis pinnatisve lanceolatis obtusis, basi obtuse truncatis subcordatisve. *Willd. sp. pl.* 5. *p.* 375.

venosa. *α.* P. pinnulis subtus venosis, stipite angulato.

Icon. *Schkuhr filic. t.* 101. *Pluk. mant. t.* 349. *f.* 1.

punctata. *β.* P. pinnulis subtus punctatis, stipite terete.

P. spiculata. *Schkuhr filic. t.* 100.

In clefts of rocks: Pensylvania to Carolina. ♃. July. *v. v.* About a span high; grayish-green with dark purple stems.

gracilis. 3. P. frondibus pinnatis, pinnis lanceolatis obtusis alternis sessilibus, inferioribus pinnatifidis, fertilibus integerrimis, sterilibus crenatis rotundato-obtusis. *Willd. sp. pl.* 5. *p.* 376.

On rocks in Canada. *Michaux.* ♃. July. *v. s.* Not above four inches high; stems yellowish-green, smooth and shining.

caudata. 4. P. fronde pinnato-tripartita, ramis sterilibus bipinnatis, pinnulis linearibus elongatis obtusis integerrimis, inferioribus bipinnatifidis, fructificantibus pinnatis, pinnis remotiusculis inferioribus basi pinnatifido-dentatis.—*Willd. sp. pl.* 5. *p.* 401.

Icon. *Jacq. ic. rar.* 3. *t.* 645. *Plum. amer. t.* 22. *filic. t.* 29.

In shady stony woods, on the side of rivulets: Pensylvania to Carolina. ♃. Aug. *v. v.*

aquilina. 5. P. fronde pinnato-tripartita, ramis sterilibus bipinnatis, pinnis lineari-lanceolatis obtusis pinnatifido-dentatis, fructificantibus pinnatis, pinnulis pinnatifidis, laciniis acutiusculis, omnibus ciliatis.—*Willd. sp. pl.* 5. *p.* 402.

Icon. *Schkuhr filic. t.* 95. 96. b. *Plum. filic. t.* A. *f.* 1.

In dry barren woods: Canada to Florida. ♃. Aug.

v. v. It deviates in some respects from the European plant, but is not sufficiently distinct to form a separate species, as it is well known how much the European species itself assumes different appearances in different soils.

730. VITTARIA. *Smith act. taur.* 5. *p.* 413. *t.* 9. *f.* 5.

1. V. frondibus linearibus longissimis pendulis, soris solitariis intra marginalibus. *Willd. sp. pl.* 5. *p.* 404. *lineata.*
V. angustifrons. *Mich. fl. amer.* 2. *p.* 261.
Pteris lineata. *Sp. pl.* 1530.
Icon. *Schkuhr filic. t.* 101. b. *Plum. amer. t.* 41. *filic. t.* 143. *Petiv. filic. t.* 14. *f.* 3.
On the banks of the rivulet Aisa-hatcha, Florida. *Michaux.* ♃. +. The leaves resemble those of a common grass.

731. BLECHNUM. *Gen. pl.* 1627.

1. B. frondibus sterilibus pinnatifidis, laciniis lanceolatis obtusiusculis parallelis, fructiferis pinnatis, pinnis linearibus acuminatis. *Willd. sp. pl.* 5. *p.* 408. *boreale.*
B. Spicant. *Roth. fl. germ.* 3. *p.* 44.
Onoclea Spicant. *Hoffm. fl. germ.* 2. *p.* 11.
Osmunda Spicant. *Sp. pl.* 1522.
Icon. *Schkuhr filic. t.* 110. *Fl. dan.* 99. *Bolt. filic. t.* 6. *Moris. hist.* 3. *s.* 14. *t.* 2. *f.* 23.
On the north-west coast. *M. Lewis.* ♃. Aug. *v. s. in Herb. Lewis.*

2. B. frondibus pinnatis, pinnis lanceolatis utrinque attenuatis basi decurrentibus argute serratis. *Willd. sp. pl.* 5. *p.* 411. *serrulatum.*
On the banks of the rivulet Aisa-hatcha, Florida. *Michaux.* ♃. +.

732. WOODWARDIA. *Smith act. taur.* 5. *p.* 411. *t.* 9. *f.* 5.

1. W. frondibus sterilibus pinnatifidis, laciniis lanceolatis repandis tenuissime serrulatis, fructiferis pinnatis, pinnis linearibus integerrimis acutis. *Willd. sp. pl.* 5. *p.* 416. *onocleoides*
W. angustifolia. *Smith act. taur.* 5. *p.* 411.
W. floridana. *Schkuhr filic. p.* 103. *t.* 111.
Onoclea nodulosa. *Mich. fl. amer.* 2. *p.* 272. *Swartz. synop. filic.* 111.

Acrostichum areolatum. *Sp. pl.* 1526.
Osmunda caroliniana. *Walt. fl. car.* 257.
Icon. *Schkuhr l. c. Pluk. phytogr. t.* 399. *f.* 1. *Moris. hist.* 3. *s.* 14. *t.* 2. *f.* 24.
In cedar and cypress-swamps: New Jersey to Florida. ♃. Aug. *v. v.* About a foot high.

virginica. 2. W. frondibus glaberrimis pinnatis, pinnis sessilibus lanceolatis pinnatifidis, laciniis oblongis obtusis crenulatis, fructiferis elongatis, stipite glabro tereti.—*Willd. sp. pl.* 5. *p.* 418.
W. Banisteriana. *Mich. fl. amer.* 2. *p.* 263.
Blechnum virginicum. *Mant.* 307.
Blechnum carolinianum. *Walt. fl. car.* 257.
Icon. *Pluk. alm. t.* 179. *f.* 2.
In swamps and shady woods: Virginia and Carolina. ♃. July. *v. v.* Above a foot high.

thelypterioides. 3. W. frondibus pinnatis, pinnis sessilibus basi villosis lineari-lanceolatis pinnatifidis, laciniis sterilium oblongis obtusiusculis, fertilium abbreviato-triangularibus acutis, omnibus integerrimis, stipite pubescente angulato.
In sandy swamps: South Carolina, near Charlestown. ♃. July. *v. v.* Resembles the preceding, but is not half the size.

733. ADIANTUM. *Gen. pl.* 1633.

pedatum. 1. A. fronde pedata, ramis pinnatis, pinnis dimidiatis oblongis lunatis margine superiore incisis, laciniis sterilibus dentatis, fertilibus integerrimis, soris linearibus, stipite glabro. *Willd. sp. pl.* 5. *p.* 438.
Icon. *Schkuhr filic. t.* 115. *Pluk. alm. t.* 124. *f.* 2. *Corn. canad. t.* 6.
In shady woods: Canada to Virginia. ♃. July. *v. v.* A very elegant fern.

734. CHEILANTHES. *Swartz. synop. filic. p.* 5.

vestita. 1. C. frondibus bipinnatis utrinque hirtis, pinnulis pinnatifidis, laciniis oblongis obtusis integerrimis, stipite rachibusque hirtis. *Willd. sp. pl.* 5. *p.* 458.
Adiantum vestitum. *Sprengel. anleit.* 3. *p.* 122.
Aspidium lanosum. *Swartz. synop. filic. p.* 58.
Nephrodium lanosum. *Mich. fl. amer.* 2. *p.* 270.
Icon. *Schkuhr filic. t.* 124.

On rocks: Pensylvania to Virginia and on the Missouri. ♃. July. *v. v.* A handsome very small fern, covered with long brownish hair.

2. C. frondibus triplicato-pinnatis, pinnulis ovalibus distinctis apice crenatis aut emarginatis subtus dealbatis. *dealbata.*
On rocks, on the banks of the Missouri. ♃. July. *v. s.* A very delicate small fern, very much resembling *C. tenuifolia.*

735. DICKSONIA. *L'Herit. sert. angl.* 30.

1. D. frondibus bipinnatis, pinnulis oblongo-lanceolatis pinnatifidis, laciniis margine superiore inciso-dentatis, rachibus pilosiusculis. *Willd. sp. pl.* 5. *p.* 484. *pilosiuscula.*
D. pubescens. *Schkuhr filic. p.* 125. *t.* 131.
Polypodium pilosiusculum. *Muhlb. in litt.*
In shady woods, among rocks: Pensylvania and Virginia. ♃. *v. v.* A foot or more high, resembling *Aspidium dilatatum.*

736. HYMENOPHYLLUM. *Smith act. taur.* 5. *p.* 418.

1. H. frondibus pinnatis, pinnis infimis majoribus, superioribus sensim minoribus pinnatifidis, laciniis linearibus obtusis bifidis ciliatis, venis hirtis, rachi stipiteque alatis ciliatis. *Willd. sp. pl.* 5. *p.* 519. *ciliatum.*
Trichomanes ciliatum. *Swartz. prodr.* 136.
In shady forests, on the trunks of old trees: Pensylvania and Virginia. ♃. *v. v.*

V. *HYDROPTERIDES.*

737. ISOETES. *Gen. pl.* 1620.

1. I. frondibus subulatis semiteretibus. *Willd. sp. pl.* 5. *p.* 534. *lacustris.*
Icon. *Schkuhr filic. t.* 173. *Fl. dan.* 191. *Dill. musc. t.* 80. *f.* 1.
On rocks, on the bottom of rivers: New York, in the Oswego river, near the Falls. ♃. *v. v.* This singular plant, resembling a zoophyte, is about two inches high.

738. SALVINIA. *Gen. pl.* 1617.

natans. 1. S. foliis ellipticis obtusis supra fasciculato-setosis, petiolis pilosis, fructibus subsessilibus aggregatis. *Willd. sp. pl.* 5. *p.* 536.

Marsilea natans. *Sp. pl.* 1562.

Icon. *Schkuhr filic. t.* 173. *Lam. illust.* 863.

Floating, like *Lemna*, on the surface of stagnant waters: in several of the small lakes in the western parts of New York and Canada. ⊙. *v. v.*

739. AZOLLA. *Lam. encycl.* 1. *p.* 340.

caroliniana. 1. A. foliis imbricatis ovato-oblongis obtusis patentibus subtus rubris.—*Willd. sp. pl.* 5. *p.* 541.

Floating on the waters of Lake Ontario. ⊙. *v. v.* Resembles a floating moss or *Jungermannia*.

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——— Orontium.	*Calf's Snout.*	422
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——— hispida.	*Poison Elder.*	209
——— spinosa.	*Angelica-tree.*	209
——— racemosa.	*Spikenard.*	209
Arbutus.	*Strawberry-tree.*	282
——— Uva ursi.	*Bear-berry. Saca-commis.*	283
Arctium.	*Burdock. Clot-bur.*	505
Arenaria.	*Sand-wort.*	317
Aristolochia.	*Birth-wort.*	596
——— Serpentaria.	*Virginia Snake-root.*	596
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——— Dracunculus.	*Tarragon.*	521
——— vulgaris.	*Mug-wort.*	522
Arum.	*Wake-Robin.*	399
——— Dracontium.	*Green Dragon.*	400
Arundo.	*Reed-grass.*	86
——— arenaria.	*Sea-mat-grass.*	87
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——— canadense.	*Wild Ginger. Colt's Foot.*	596
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Asplenium.	*Spleen-wort.*	666
——— Ruta muraria.	*Wall-Rue.*	667
Aster.	*Star-wort.*	532
Astragalus.	*Milk Vetch.*	472
Atriplex.	*Orache.*	199
Avena.	*Oat-grass. Oats.*	85
Azalea.	*Upright* or *American Honey-suckle.*	151
Baccharis.	*Groundsel-tree.*	523
Batschia.	*Puccoon. Indian Paint.*	132
Bejaria.	*Catch-fly-bush.*	362
Bellis.	*Daisy.*	526
Berberis.	*Berberry. Pipperidge.*	219
Betula.	*Birch-tree.*	620
—— lenta.	*Mountain-Mahogany.*	621
Bidens.	*Bur-marygold.*	566
Bignonia.	*Trumpet-flower.*	419
Blechnum.	*Rib Fern.*	669
Blitum.	*Strawberry-blite.*	4
Botrychium.	*Rattle Snake Fern.*	655
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Briza.	*Quaking-grass.*	82
Bromus.	*Brome-grass.*	85
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Caltha.	*Marsh-marygold.*	389
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Campanula.	*Bell flower.*	159
Canna.	*Indian Reed* or *Shot.*	585
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Caprifolium.	*Honey-suckle. Woodbine.*	160
Cardamine.	*Ladies' Smock.*	439
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Carpinus.	*Hornbeam-tree.*	623

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Castanea.	*Chesnut-tree.*	624
——— pumila.	*Chinquapin.*	625
Catalpa.	*Catalpa-tree.*	10
Caulophyllum.	*Blue Cohosh.*	218
Ceanothus.	*Red-root. New Jersey Tea.*	167
Celastrus.	*Staff-tree.*	167
Celtis.	*Nettle-tree. Hag-berry. Hoop-ash.*	200
Cenchrus.	*Bur-grass.*	60
Centaurea.	*Centaury.*	576
——— Cyanus.	*Blue-bottle.*	576
——— solstitialis.	*St. Barnaby's Thistle.*	576
Centunculus.	*Chaff-weed.*	97
Cephalanthus.	*Button-wood.*	114
Cerastium.	*Mouse-ear Chick-weed.*	320
Ceratophyllum.	*Horn-wort.*	370
Cercis.	*Judas-tree.*	308
Chara.	*Feather-beds.*	4
Chærophyllum.	*Cow-parsley. Wild Chervil.*	195
Chamærops.	*Palmetto-tree. Cabbage-tree.*	239
Cheiranthus.	*Stock. Wall-flower.*	436
Chelidonium.	*Celandine.*	365
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——— viride.	*Lamb's-quarter.*	198
——— Anthelminticum.	*Worm-seed.*	198
Chimaphila.	*Winter-green. Sipsisewa.*	300
Chiococca.	*Snow-berry.*	160
Chionanthus.	*Fringe-tree. Snow-flock-tree. Snow-flower.*	7
Chloris.	*Wire-grass. Couch-grass.*	87
Chondrilla.	*Gum Succory.*	497
Chrysanthemum.	*Ox-eye Daisy.*	526
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——— Serpentaria.	*Black Snake-root.*	372
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Cissus.	*Pepper-vine*	170
——— hederacea.	*Virginia Creeper.*	170

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Cnicus.	*Thistle.*	506
Collinsonia.	*Horse-weed.*	20
Comarum.	*Marsh Cinquefoil.*	356
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Conyza.	*Flea-bane.*	523
Coreopsis.	*Tick-seed Sunflower.*	507
Corispermum.	*Tick-seed.*	4
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——— sanguinea.	*Red Osier.*	109
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——— Cucullaria.	*Breeches-flower.*	462
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——— rostrata.	*Cuckold's Nut.*	635
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Crotalaria.	*Rattle-pea.*	469
Cucubalus.	*Campion.*	315
Cunila.	*Dittany.*	406
Cupressus.	*Cypress.*	645
——— thyoides.	*White Cedar.*	646
Cuscuta.	*Dodder.*	116
Cynoglossum.	*Hound's-tongue.*	133
Cyperus.	*Nut-grass.*	50
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——— diphylla.	*Pepper-root. Indian Mustard.*	438
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Dracocephalum.	*Dragon's-head.*	411
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Echium.	*Viper's Bugloss.*	130
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Epilobium.	*Willow-herb.*	259
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——— bellidifolium.	*Poor Robin's Plantain. Rattle-snake Plantain.*	532
Eriocaulon.	*Pipe-wort.*	91
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Erysimum.	*Hedge Mustard.*	436
——— cheiranthoides.	*Worm-seed.*	436
Erythrina.	*Coral-plant.*	467
Erythronium.	*Dog's-tooth Violet.*	230
Eupatorium.	*Hemp Agrimony.*	512
——— perfoliatum.	*Thorough-wort. Bone-set.*	516
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Evonymus.	*Spindle-tree.*	168
——— americanus.	*Burning-bush.*	168
Fagus.	*Beech-tree.*	624
Festuca.	*Fescue-grass.*	83
Fragaria.	*Strawberry.*	357
Fraxinus.	*Ash-tree.*	8
Fumaria.	*Fumitory.*	463
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——— maculatum.	*Alum-root. Flux-weed.*	448
——— Robertianum.	*Herb-Robert.*	449
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Glaux.	*Black Salt-wort.*	176
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Gleditschia.	*Honey Locust-tree.*	221
Glycirrhiza.	*Liquorice.*	480
Gnaphalium.	*Everlasting. Cudweed.*	524
Gordonia.	*Loblolly Bay.*	451
Gratiola.	*Hedge-hyssop.*	12
——— aurea.	*Golden-pert.*	12
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Helianthus.	*Sun-flower.*	570
Heliotropium.	*Turnsol.*	130
Helonias dioica.	*Star-wort. Colic-wort.*	243
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Heracleum.	*Cow Parsnep.*	192
Hesperis.	*Rocket.*	436
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Hippophaë.	*Sea Buckthorn.*	115
Hippuris.	*Mare's-tail.*	3
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Hordeum.	*Barley.*	89
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Hydrastis.	*Yellow-root. Turmeric.*	389
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Hydrophyllum.	*Water-leaf.*	134
Hyoscyamus.	*Henbane.*	141
Hyoseris.	*Swine's Succory.*	504

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——— densiflorum.	*American Yellow-heath.*	376
Jatropha.	*Wild Cassava. Tread-softly.*	603
Ilex.	*Holly. Dahoon.*	117
——— vomitoria.	*South-sea Tea.*	118
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Illicium.	*Aniseed-tree.*	380
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Juglans.	*Walnut. Hickory.*	636
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——— alba.	*Shell-* or *Shag-bark.*	637
——— olivæformis.	*Pecan-nut.*	636
——— porcina.	*Hog-* or *Pig-nut.*	638
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Juniperus.	*Juniper.*	646
——— virginiana.	*Red Cedar.*	647
Iva.	*Bastard Jesuit's-bark.*	580
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——— angustifolia.	*Sheep Laurel.*	296
——— latifolia.	*Calico-flower.*	296
Lactuca.	*Lettuce.*	500
Lamium.	*Archangel.*	406
——— amplexicaule.	*Henbit.*	406
Laurus.	*Laurel. Sweet-bay.*	275
——— Benzoin.	*Spice-wood. Benjamin-tree.*	276
——— caroliniensis.	*Red-bay.*	276
——— Sassafras.	*Sassafras-tree.*	277
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Lemna.	*Duck's-meat.*	22
Leontodon.	*Dandelion.*	497
Lepidium.	*Pepper-wort.*	435
Liatris.	*Button Snake-root.*	507
——— squarrosa.	*Rattle-snake's-master.*	509
Ligusticum.	*Lovage.*	193
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——— carolinianum.	*American Martagon.*	229
Linum.	*Flax.*	210
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Liriodendron.	*Tulip-tree. American Poplar.*	382
Lithospermum.	*Gromwell.*	131
Lobelia Cardinalis.	*Cardinal's-flower.*	448
——— inflata.	*Eye-bright.*	448
——— siphilitica.	*American Mercury.*	447
Lotus.	*Bird's foot Trefoil*	489
Lupinus.	*Lupine.*	467
Lycium.	*Box-thorn.*	97
Lycopodium.	*Club-moss.*	652
——— dendroideum.	*Ground Pine.*	653
——— alopecuroideum.	*Walking-fern.*	654
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Lycopus.	*Water Horehound.*	16
Lysimachia.	*Loose-strife.*	135
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——— auriculata.	*Indian Physic.*	382
——— glauca.	*Swamp Sassafras. Sweet Bay. Swamp Laurel. Beaver-wood.*	381
——— grandiflora.	*Big Laurel.*	380
——— tripetala.	*Umbrella-tree. Elk-wood.*	381
Malva.	*Mallow.*	454
Marrubium.	*Horehound.*	408
Martynia.	*Cuckold's Horns.*	428
Medicago.	*Medick. Nonsuch.*	490
Medeola.	*Indian Cucumber.*	244
Melampyrum.	*Cow-wheat.*	430
Melica.	*Melic-grass.*	77
Melilotus.	*Melilot.*	477
Menispermum.	*Moon-seed.*	370
——— canadense.	*Sarsaparilla.*	370
Mentha.	*Mint.*	405
Menyanthes.	*Buck-bean. Marsh Trefoil.*	139
Miegia.	*Canes.*	59
Milium.	*Millet-grass.*	62
Mimulus.	*Monkey-flower.*	426
Mitchella.	*Eye-bright.*	101

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Monarda.	*Mountain-mint.*	16
——— Kalmiana.	*Oswego Tea.*	17
——— punctata.	*Gravel-wort.*	18
Monotropa.	*Yellow Bird's-nest.*	303
Morus.	*Mulberry.*	639
Myosotis.	*Scorpion-grass.*	133
Myrica.	*Candleberry Myrtle. Wax Myrtle.*	620
——— Gale.	*Sweet-gale.*	620
Myriophyllum.	*Water-milfoil.*	274
Neottia.	*Ladies' Traces.*	589
Nepeta.	*Cat-nep. Cat-mint.*	406
Nicotiana.	*Tobacco.*	141
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——— villosa.	*Sour Gum-tree.*	177
Oenanthe.	*Water drop-wort.*	194
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——— fruticosa.	*Sun drop.*	262
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Onoclea.	*Sensitive-fern.*	665
Ophioglossum.	*Adder's tongue.*	655
Origanum.	*Marjoram.*	411
Ornus.	*Flowering-Ash.*	8
Orobanche.	*Broom-rape.*	431
——— virginiana.	*Cancer-root.*	431
Oryzopsis.	*Mountain-rice.*	60
Osmunda.	*Flowering-fern.*	657
Ostrya.	*Virginian Hornbeam. Iron-wood. Lever-wood.*	623
Oxalis.	*Woodsorrel.*	322
Oxycoccus.	*Craneberry.*	263
Panax.	*Ginseng.*	191
Panicum.	*Panic-grass.*	66
Papaver.	*Poppy.*	365
Parietaria.	*Pellitory.*	114
Parnassia.	*Grass of Parnassus.*	208

Passiflora.	*Passion flower.*	444
Pastinaca.	*Parsnep.*	196
Pedicularis.	*Louse-wort.*	424
Peplis.	*Water-Purslane.*	238
Phalaris.	*Canary-grass.*	65
Phaseolus.	*Kidney-bean.*	469
Phellandrium.	*Water Hemlock.*	195
Philadelphis.	*Mock-Orange.*	329
Phleum.	*Cat's-tail-grass.*	65
——— pratense.	*Timothy-grass.*	65
Physalis.	*Ground Cherries.*	157
Phytolacca.	*Poke-root.*	324
Pinguicula.	*Butter-wort.*	14
Pinus.	*Pine. Fir-tree. Hemlock. Spruce. Larch-tree.*	639
Pisum.	*Pea.*	470
Plantago.	*Plantain.*	98
——— lanceolata.	*Rib-wort.*	98
Platanus.	*Plane-tree. Sycamore. Button-wood.*	635
Poa.	*Meadow-grass.*	78
Podophyllum.	*Duck's-foot. May-apple.*	366
Polemonium.	*Greek Valerian. Jacob's Ladder.*	151
Polygala.	*Milk-wort.*	464
——— seneca.	*Seneca Snake-root.*	464
Polygonatum.	*Solomon's Seal.*	234
Polygonum.	*Persicaria.*	269
——— aviculare.	*Knot-grass.*	269
——— bistortoides.	*Snake-weed.*	271
——— Convolvulus.	*Black Bind-weed.*	273
——— Fagopyrum.	*Buck-wheat.*	273
——— Hydropiper.	*Water Pepper.*	270
Populus.	*Poplar.*	618
——— balsamifera.	*Tacamahac.*	618
——— trepida.	*Asp or Aspen-tree.*	618
Porcelia.	*Papaw-tree.*	383
Portulacca.	*Purslane.*	365
Potamogeton.	*Pond-weed.*	120
Potentilla.	*Cinquefoil.*	353
——— Anserina.	*Wild Tansey.*	356
Pothos fœtida.	*Scunk-weed. Scunk-cabbage.*	398
Prenanthes.	*Milk-weed.*	498
——— Serpentaria.	*Lion's-foot.*	499

Prinos.	*Winter-berry.*	220
——— ambiguus.	*Black Alder.*	220
——— glaber.	*Ink-berry.*	220
Prunella.	*Self-heal.*	411
Prunus.	*Plum-tree. Cherry-tree.*	329
Pteris.	*Brake.*	668
Pulmonaria.	*Lung-wort.*	130
Pycnanthemum.	*Horse-* or *Mountain-mint.*	409
Pyrola.	*Winter-green.*	299
Pyrus.	*Apple-tree.*	339
——— Botryapium.	*May-bush.*	339
Quercus.	*Oak-tree.*	625
Ranunculus.	*Crow-foot.*	391
Rhamnus.	*Buck-thorn.*	166
Rhinanthus.	*Yellow-rattle.*	429
Rhododendron.	*Rose Bay. Mountain Laurel.*	297
Rhus.	*Sumach.*	204
——— Toxicodendron.	*Poison Oak.*	205
Ribes.	*Currant-tree. Gooseberry.*	163
Ricinus.	*Palma-Christi. Castor-oil. tree.*	602
Robinia.	*False Acacia. Locust-tree.*	487
Rosa.	*Rose-Hep-tree.*	344
Rottboellia.	*Hard-grass.*	88
Rubia.	*Madder.*	102
Rubus.	*Bramble. Raspberry.*	346
——— trivialis.	*Dewberry.*	347
——— Chamæmorus.	*Cloud-berry.*	349
——— villosus.	*Black-berry.*	346
Rumex.	*Dock. Sorrel.*	247
Ruppia.	*Tassel Pond-weed.*	121
Sabbatia.	*Centaury.*	137
Saccharum.	*Wild Sugar-cane.*	73
Sagina.	*Pearl-wort.*	119
Sagittaria.	*Arrow-head. Arrow-root.*	395
Salicornia.	*Salt-* or *Glass-wort. Samphire.*	2
Salix.	*Willow. Osier.*	608
Salsola.	*Salt-wort.*	197
Salvia.	*Sage.*	19

Sambucus.	*Elder.*	203
Samolus.	*Brook-weed. Water Pimpernel.*	158
Sanguinaria.	*Blood-wort. Puccoon.*	366
Sanguisorba.	*Great Burnet.*	116
Santolina.	*Lavender Cotton.*	520
Sapindus.	*Soap-berry.*	274
Saponaria.	*Soap-wort.*	314
Sarracenia.	*Side-saddle flower.*	367
Saururus.	*Lizard's-tail.*	252
Saxifraga.	*Saxifrage.*	310
——— nivalis.	*Sengreene.*	310
Schœnus.	*Bog Rush.*	47
Schrankia.	*Sensitive Briar.*	305
Scirpus.	*Club Rush.*	54
Scleranthus.	*Knawel.*	315
Scolopendrium.	*Hart's-tongue.*	667
Scorzonera.	*Viper's-grass.*	497
Scutellaria.	*Scull-cap.*	412
Secale.	*Rye.*	90
Sedum.	*Stone crop. Orpine.*	323
Selinum.	*Milk Parsley*	192
Senecio.	*Groundsel. Rag-wort.*	528
——— hieracifolius.	*Butter-weed. Fire-weed.*	529
Seseli.	*Meadow Saxifrage.*	197
Silene.	*Catch-fly. Wild Pink.*	315
Sison.	*Hone wort.*	194
Sisymbrium.	*Water-cress.*	440
——— amphibium.	*Water-radish.*	440
——— Sophia.	*Flix-weed.*	440
Sisyrinchium.	*Blue-eyed Grass.*	31
Sium.	*Water Parsnep.*	194
Smilax.	*Green Briar. Poison Briar.*	249
Smyrnium.	*Alexanders.*	196
Solanum.	*Nightshade.*	156
——— Dulcamara.	*Bittersweet.*	156
Solidago.	*Golden-rod.*	535
Sorbus.	*Service-tree. Mountain-Ash.*	341
Sorghum.	*Indian Millet. Broom grass.*	78
Sparganium.	*Bur-reed.*	33
Spergula.	*Spurrey.*	320
Spermacoce.	*Button-weed.*	105
Spigelia.	*Worm grass. Indian Pink-root.*	139

Spiræa.	*Meadow-sweet.*	341
——— opulifolia.	*Virginian Guelder-rose.*	342
——— trifoliata.	*Indian Physic. Ipecacuanha.*	343
Stachys.	*Hedge Nettle.*	407
Staphylea.	*Bladder-nut.*	206
Statice.	*Thrift. Sea Lavender.*	212
Stellaria.	*Stitch-wort.*	317
——— media.	*Chick-weed.*	317
Stillingia sebifera.	*Tallow-tree.*	608
Stipa.	*Feather-grass.*	72
Swertia.	*Marsh Felwort.*	100
Symphoria.	*St. Peter's-wort.*	162
Tanacetum.	*Tansey.*	523
Taxus.	*Yew-tree.*	647
Tephrosia.	*Goat's Rue.*	489
Teucrium.	*Germander.*	405
Thalictrum.	*Meadow Rue.*	388
Thesium.	*Bastard Toad-flax.*	177
Thlaspi.	*Bastard cress. Penny-cress. Shepherd's-purse.*	435
Thuya.	*American Arbor-vitæ.*	646
Thymus.	*Thyme.*	413
Tilia.	*Lime tree. Linden-tree. Bass wood. White-wood. Spoon-wood.*	362
Tradescantia.	*Spider wort.*	218
Trientalis.	*Winter-green.*	254
Trifolium.	*Trefoil. Clover.*	477
Triglochin.	*Arrow-grass.*	247
Triosteum.	*Fever-wort. Gentian.*	162
Triticum.	*Wheat.*	90
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SUPPLEMENTUM.

Lycopus exaltatus.—L. foliis basi pinnatifido-serratis, laciniis integerrimis subserratisque, calycibus spinescentibus.—*Willd. sp. pl.* 1. *p.* 121. *page 16.*

Icon. *Fl. græc. t.* 12.

In low shady woods: Virginia to Carolina; rare. ♃. July, Aug. *v. v.*; *v. s. in Herb. Sherard.* From three to six feet high. This species I omitted for want of a specimen in my Herbarium, though I found it myself in Virginia; but seeing a specimen of Catesby's in the Sherardian Herbarium, I was convinced of its being a real American species.

Monarda rugosa.—M. glabriuscula; capitulis mediocribus subsimplicibus, bracteis exterioribus ovatis undulatis pilosis, calycibus corollisque glabris, lacinia media labii inferioris bidentata, foliis ovatis subcordatis acutis rugosis, nervis subtus petiolisque pilosis, caule acutangulo glabriusculo.—*Willd. sp. pl.* 1. *p.* 125. *p. 17.*

In Canada and on the mountains of Virginia. ♃. July—Sept. *v. v in Hort. Lambert.* About four feet high; flowers small, white.

Valeriana dioica.—V. glabra; foliis radicalibus subspathulato-ovatis integris longissime petiolatis, caulinis paucis pinnatifidis, laciniis lanceolatis integerrimis subdentatisque obtusiusculis.—*Willd. sp. pl.* 1. *p.* 176. *p. 28.*

Icon. *Fl. dan.* 687.

In swamps at Hudson's Bay. *Tilden.* ♃. June. *v. s. in Herb. Sherard.* About a span high; flowers flesh-coloured.

Fedia chenopodifolia.—F. dichotoma; foliis ovatis acutis inferne dentatis, cymis nudis divaricato-dichotomis, filamentis longis.

Valeriana virginiana, pedis anserinæ folio. *Pet. H. S. in Herb. Sherard.*

In Virginia. ⊙. *v. s. in Herb. Sherard.* About a span high; flowers the size of *V. officinalis.*

p. 72. *Aristida pallens.*—A. culmo erecto simplici, foliis filiformibus, radicalibus culmo brevioribus, panicula pauciflora, pedicellis alternis brevibus bifloris, aristis elongatis.—*Cav. ic. 5. t. 468. f. 2.*

In Upper Louisiana. *Bradbury.* ♃. *v. s. in Herb. Bradbury.* About a foot high; the awns more than three inches high.

p. 73. *Stipa membranacea.*—S. foliis convoluto-filiformibus glabris, panicula laxa, pedicellis flexuosis, calycibus membranaceis 3-nervibus longe acuminatis, corollis calyce brevioribus sericeo-villosis, villis corollam superantibus, arista nuda recta calyce paulo longiore.

On the banks of the Missouri. *Bradbury.* *v. s. in Herb. Bradbury.* About eighteen inches high; flowers oval, covered with long silky hair.

p. 85. *Bromus altissimus.*—B. panicula nutante, spiculis oblongis sub-6-floris, flosculis pubescentibus, valvula exteriore 3-nervata breviter aristata, foliis vaginisque glabris, culmo glabro altissimo.

On the banks of the Missouri. ♃. July, Aug. *v. v. in Hort. Lambert.* From five to eight feet high.

p. 88. *Cynosurus secundus.*—C. glaber; foliis linearibus, spica elongata unilateralis, spiculis solitariis, defloratis reflexis, calycibus lineari-lanceolatis acutissimis.

In Upper Louisiana. *Bradbury.* *v. s. in Herb. Bradbury.* Resembles *C. retroflexus* very much.

p. 97. *Allionia linearis.*—A. caule erecto tereti, foliis linearibus subcarnosis, floribus racemosis, pedicellis aggregatis, staminibus longissime exertis.

Calymenia angustifolia. *Fraser Catal.* 1813.

In Upper Louisiana. *Bradbury.* *v. s. in Herb. Bradbury.*

Allionia hirsuta.—A. caule erecto angulato, foliis lanceolatis nervosis utrinque hirsutis, calycibus hirsutissimis sub-3-floris.

In Upper Louisiana. *Bradbury.* *v. s. in Herb. Bradbury.*

Plantago elongata.—P. foliis linearibus integerrimis glabris, scapo spicis elongatis subimbricatis foliis longioribus, bracteis ovatis acutis margine membranaceis. *p.* 99.

In Upper Louisiana. *Bradbury. v. s. in Herb. Bradbury.* Resembles *P. pauciflora.*

Pulmonaria lanceolata.—P. glabra, erecta; foliis radicalibus longissime pedicellatis lanceolatis, caulinis lineari-oblongis, floribus subpaniculatis, calycibus abbreviatis. *p.* 131.

In Upper Louisiana. *Bradbury.* ♃. *v. s. in Herb. Bradbury.* Flowers small, resembling those of *P. paniculata.*

Pulmonaria sibirica.—P. calycibus abbreviatis, foliis radicalibus cordatis. *Willd. sp. pl.* 1. *p.* 770.

Anchusa. *Gmel. sib.* 4. *p.* 75. *no.* 15. *t.* 39.

In Canada. *Masson.* ♃. July. *v. s. in Herb. Lambert.* Flowers purple, in terminal corymbs; it resembles *P. virginica* very much.

Cynoglossum glomeratum.—C. hispidum; foliis spathulatis obtusis, floribus glomeratis. *p.* 133.

C. glomeratum. *Fraser. catal.* 1813.

In Upper Louisiana. *Bradbury.* ♃. *v. s. in Herb. Bradbury.*

Lysimachia lanceolata.—L. glaberrima; foliis quaternis subpetiolatis lanceolatis promisse acuminatis, pedunculis quaternis multifloris, floribus summis racemosis, corollæ laciniis ovatis acutis, caule erecto simplici. *p.* 135.

L. caroliniana quadrifolia, foliis acutis. *Herb. Sherard.*

In Carolina *Catesby.* ♃. *v. s. in Herb. Sherard.* Flowers the size of *L. vulgaris.*

Calystegia Catesbeiana.—C. volubilis, tomentosa; foliis oblongis sagittatis acumininatis, pedunculis unifloris folio brevioribus, bracteis ovalibus obtusis calyce longioribus. *p.* 143.

In Carolina. *Catesby. v. s. in Herb. Sherard.* Flowers large, purple.

Calystegia paradoxa.—C. humifusa, tomentosa; foliis oblongis cordato-sagittatis acutis, pedunculis unifloris elongatis folio longioribus, bracteis a flore remotis linearibus, calycibus nudis glabris acuminatis.

Convolvulus virginianus, læviter hirsutis et oblongis foliis, flore maximo albicante. *Pluk. mant.* 54. *secundum Herb. Sherard.*

In Virginia or Carolina. *v. s. in Herb. Sherard.* Flowers large, white.

p. 143. *Convolvulus Sherardi.*—C. humifusus, pubescens; foliis ellipticis utrinque retusis mucronatis, floribus solitariis subsessilibus.

C. forte monococco Banist. similis, sed vasculis sessilibus. *Herb. Sherard.*

In Carolina. *Catesby.* ⊙. *v. s. in Herb. Sherard.* Resembles *C. trichosanthes* very much; I have only seen a specimen with fruit.

p. 147. *Cantua parviflora.*—C. pubescens, diffusa; foliis pinnatifidis, laciniis linearibus elongatis, pedunculis solitariis unifloris terminalibus et oppositifoliis, corollis calyce vix longioribus.

Ipomopsis inconspicua. *Smith exot bot.* 1. *t.* 14.

In North America. *Hoy.* ⊙. June. *v. v. in Hortis.* Flowers small, pale blue. I insert this plant on the authority of Exotic Botany; but at the same time I doubt very much of its being a native of North America, and more strongly suspect it to come from Mexico.

p. 148. *Phlox acuminata.*—P. erecta, pubescens; caule angulato, foliis ovato-lanceolatis acuminatis inferne angustatis subpetiolatis subtus pubescentibus, floralibus subcordatis, corymbis paniculatis, corollæ laciniis rotundatis, tubo pubescente, calycibus aristatis.

Phlox decussata. *Lyon catal.* 1812.

On the mountains of Georgia and South Carolina. *Lyon.* ♃. Aug. Sept. *v. v. in Hort. Lambert.* From four to five feet high; flowers very handsomely variegated, with dark and light shades of purple.

p. 149. *Phlox nitida.*—P. erecta, glaberrima; caule tereti maculato lævigato, foliis ovato-oblongis subcarnosis supra nitidis atrovirentibus, subtus pallidis, corymbis fastigiatis, ramis inferioribus elongatis nudiusculis, corollæ laciniis lato-obovatis subretusis, dentibus calycinis lanceolatis mucronatis.

P. suffruticosa. *Hortul.*

In South Carolina. *Fraser.* ♃. Aug.—Oct. *v. v. in Hortis.* Near two feet high; flowers of a brilliant purple, which is deeper than in any other species. This species approaches near to *P. Carolina*; but besides its other characters it distinguishes itself very easily by flowering later and longer than that species.

Solanum heterandrum.—S. annuum; caule foliisque aculeatis, foliis ovatis pinnatifidis utrinque hirsutis, laciniis obtusiusculis, antheris declinatis distantibus, ima corniformi productiore, bacca calyce echinato inclusa. *p.* 156.

Icon. *Tab.* 7.

The present description has been taken from a living plant raised by A. B Lambert, Esq. from seeds received of Mr. Nuttall. The native specimen the former description was made from was very imperfect.

Physalis somnifera.—P. perennis, tomentosa; foliis ovatis integerrimis, floribus confertis brevissime pedicellatis, corollis campanulatis. *Willd. sp. pl.* 1. *p.* 1019. *p.* 157.

Icon. *Cav. ic.* 2. *t.* 103.

In South Carolina. *Catesby.* ♃. July. *v. s. in Herb. Sherard.* Flowers small, brownish-yellow.

Campanula nitida.—C. glaberrima; foliis radicalibus spathulato-oblongis coriaceis cartilagineo-crenatis, caulinis lanceolato-oblongis subintegerrimis, floribus racemosis, corollis campanulato-rotatis.—*Willd. sp. pl.* 1. *p.* 899. *p.* 159.

C. americana minor, flore cœruleo patulo. *Rob ic.*

In North America. ♃. July. *v. s. in Herb. Lambert. nec non Sherard.* About a span high; flowers middle size, fine blue. What part of America it is from is not known, but I suppose it to be Hudson's Bay. Misled by Michaux, this plant had been inserted as a synonym to C. *acuminata,* with which it has not the least connection.

Ribes laxiflorum—R. inerme; foliis cordatis 5-lobis inciso-dentatis glabris, petiolis gracilibus, racemis laxis erectis longitudine foliorum, bracteis subulatis, pedicellis elongatis, calycibus campanulato-tubulatis, baccis globosis hispidis. *p.* 163.

On the north-west coast. *Menzies.* ♄. *v. s. in Herb. Banks.* The flowers appear to be yellow, about the size of *R floridum.*

Ribes speciosum.—R. sub gemmis 3-plicato-aculeatum; foliis cuneato-subrotundis inciso-crenatis glabris nervosis subtus pallidioribus, petiolis brevibus, pedunculis sub-3-floris foliis longioribus, pedicellis germinibusque glanduloso-pilosis, calycibus tubulatis pedicellis longioribus, staminibus longissime exertis. *p.* 165.

On the north-west coast. *Menzies.* ♄. *v. s. in Herb. Banks.* The younger branches are hispid; the flowers

large, purple. The leaves are small, and have some resemblance to those of *Thalictrum*.

p. 165. *Ribes Menziesii*.—R. sub gemmis 3-plicato-aculeatum; ramis hispidissimis, foliis basi truncatis sub-5-lobis inciso-dentatis, lobis lateralibus brevioribus, subtus tomentosis, pedunculis subbifloris foliis subæquantibus, calycibus tubulosis: limbo patente, staminibus longitudine calycis, stylo exerto, baccis globosis aculeatis.

On the north-west coast, near Fort Trinidad. *Menzies*. ♄. *v. s in Herb. Banks*. The flowers of the size and colour of *R. sanguineum*.

p. 173. *Viola asarifolia*.—V. acaulis, pubescens; foliis dilatato-reniformibus acutis circumcirca crenato-dentatis basi flabellatim in petiolum attenuatis, pedunculis foliis multo brevioribus.

Viola caroliniana maxima, foliis cucumerinis, floribus ad radicem pediculis brevibus natis. *Herb. Sherard*,

In low rich woods: Virginia to Carolina. *Catesby*. ♃. May. *v. s. in Herb. Sherard*. I have seen this species several times in Virginia, but generally without flowers; which has been the reason that no specimen was in my collection.

p. 190. *Hydrocotyle ambigua*.—H. folio radicali composito, caule subaphyllo 2–3-umbellifero, umbellulis sub-3-floris, petalis lanceolatis.

In Upper Louisiana. *Bradbury. v. s. in Herb. Bradbury*. A very small plant; flowers in proportion large, white, with purple anthers; resembling *H. composita*.

p. 192. *Selinum acaule*.—S. glabrum, acaule; foliis bipinnatis, foliolis linearibus superioribus confluentibus, scapis radicalibus foliis brevioribus, umbellulis radii masculis.

In Upper Louisiana. *Bradbury*. ♃. *v. s. in Herb. Bradbury*. Not above two or three inches high; the seeds resembling those of *Pastinaca sativa*.

p. 197. *Seseli divaricatum*.—S. caule ramosissimo divaricato, foliis bipinnatifidis, laciniis lanceolatis incisis, involucris nullis, involucellis linearibus.

In Upper Louisiana. *Bradbury. v. s. in Herb. Bradbury*. Resembles *S. tortuosum* very much.

p. 223. *Allium cernuum*.—A. scapo nudo tetragono umbellifero, foliis linearibus planiusculis, umbella cernua, staminibus simplicibus, germine sex-dentato. *Roth in Annals of bot. 2. p. 27*.

Icon. *Cat. bot. fasc.* 2. *t.* 2. *Bot. mag.* 1324.
On the mountains of Virginia and Carolina. ♃. July, Aug. *v. v.* Flowers large, rose-coloured, sweet-scented; the leaves have scarcely any scent.

Smilacina stellata, β. uniflora.—S. foliis subfalcato-lanceolatis glabriusculis, caule unifloro. p. 233.
Polygonatum monanthemum, flore parvo erecto. *Sherard. Herb.*
In Hudson's Bay. *Tilden.* ♃. *v. s. in Herb. Sherard.* As I have seen but one individual specimen, I consider it only as a variety, though it is probable it may be a distinct species.

Helonias graminea.—H. scapo folioso paniculato, racemis divaricatis, bracteolis ovatis pedicellis longioribus, petalis oblongis acuminatis, staminibus corolla triplo brevioribus, foliis linearibus canaliculatis subtus glaucis.—*Bot. mag.* 1599. p. 243.
On the mountains of Georgia. *Lyon.* ♃. Aug. *v. s. in Herb. Lyon.* This species has a strong affinity with *Nolina Georgiana.*

Rumex venosus.—R. valvulis maximis integerrimis reticulato-venosis, foliis lanceolatis integerrimis parallelo-venosis. p. 248.
In Upper Louisiana. *Bradbury.* ♃. *v. s. in Herb. Bradbury.* The seeds resemble those of *R. vesicarius.*

Smilax circidifolia.—S. aculeata; foliis inermibus orbiculato-cordatis acuminatis 5-nervibus utrinque glabris reticulato-venosis breviter petiolatis. p. 249.
S. floridana; viticulis spinosis judaicæ arboris folio maximo cordato. *Pluk. amalth.* 194.
In South Carolina. *Catesby* ♄. *v. s. s. fl. in Herb. Sherard.* Though the description was taken from a specimen without flowers, I am convinced of its being a distinct species from any one described.

Gaura coccinea.—G. sericeo-pubescens; foliis lineari-lanceolatis subdenticulatis, spica conferta, petalis longitudine calycis, stigmate subintegro. p. 260.
G. coccinea. *Fraser. catal.* 1813.
In Upper Louisiana. *Bradbury. v. s. in Herb. Bradbury.* About a span high; flowers smaller than *G. biennis*, scarlet. In the Catalogue quoted this plant is marked as a perennial, but by the appearance of the specimen I should take it to be only annual.

Oenothera albicaulis.—O. tenuissime pubescens; caule nervisque foliorum albidis, foliis pinnatifidis, laciniis diva- p. 262.

ricatis, floribus subspicatis, germinibus sessilibus cylindraceis, staminibus corolla brevioribus, petalis obcordatis.

O. albicaulis. *Fraser. catal.* 1813.

In Upper Louisiana. *Bradbury.* ♂. *v. s. in Herb. Bradbury.* Not above four inches high; flowers large, white. This species is intermediate between *O. tetraptera* and *O. sinuata.*

Oenothera Fraseri.—O. glabriuscula; caule inferne simplici, superne ramuloso, foliis ovatis petiolatis glanduloso-denticulatis, racemis foliosis, capsulis pedicellatis obovatis 4-gonis.

In South Carolina. *Fraser.* ♃. June, July. *v. v. in Hortis.* This species approaches so near to *O. fruticosa* that it is difficult to define the distinction, though their other habits are so very different. The present species flowers a short time, the stems decay, and form immediately a tuft of large radical leaves. *O. fruticosa* flowers till late in autumn, and never shows its radical leaves in that manner. The differentia specifica of *O. fruticosa* will be *O. fruticosa*, tenue pubescens; caule a basi ramosa, divaricata, foliis sessilibus lanceolatis subdentatis acutis, capsulis pedicellatis oblongo-clavatis angulatis.

Oenothera macrocarpa.—O. glabriuscula; caule ramoso, foliis lanceolatis, petiolatis, distanter glanduloso-denticulatis margine nervisque sericeo-albidis, petalis cum acumine obcordatis, capsulis ellipticis 4-alatis brevissime pedicellatis.

O. missourensis. *Bot. mag.* 1592.

On the banks of the Mississippi, near St. Louis. ♂. July—Oct. *v. v. in Hort. Lambert.* This species exceeds in size and beauty of its flowers any other one known; they are of a bright yellow, very large, and open about five o'clock in the evening. The calyx is covered with a very fine and white silky down, and is spotted with purple. The figure in the Botanical Magazine is apparently taken from a very weak and starved plant: the flowers of those in possession of A. B. Lambert, Esq., were nearly six inches in diameter, and the tube nearly seven inches long. There is an inequality on the edges of the petals, but by no means can it be called serrulate, which term has been introduced in the differentia specifica, and strongly but erroneously expressed in the figure. The specific name given there is inapplicable, as it never was found any where else,

but near St. Louis, where Mr. Nuttall gathered the ripe fruits of it, specimens of which I have seen.

Oenothera cæspitosa.—O. acaulis; foliis lanceolatis inciso-dentatis, capsulis oblongis sessilibus, calycis tubo longissimo, petalis bilobis distantibus. *Sims in Bot. mag.* 1593. *p.* 263.

O. scapigera. *Fl. amer. sept.* 1. *p.* 263.

On the banks of the Missouri. *Lewis.* ♃. June. July. *v. v. in Hort. Fraser; v. s. specimen imperfectum in Herb Lewis.* This singular species resembles *O. acaule* of Cavanilles. The flowers open in the evening, are white, changing to red, and of an agreeable scent. The erroneous description given in the place above quoted was owing to a very imperfect specimen in the Lewisian collection.

Eriogonum pauciflorum.—E. caule simplici basi folioso, umbellis paucifloris, floribus subsessilibus, foliis lineari-lanceolatis utrinque cano-tomentosis. *p.* 277.

In Upper Louisiana. *Bradbury.* ♃. *v. s. in Herb. Bradbury.* This is the smallest species, generally from two to three inches high; the flowers appear to be white.

Cactus viviparus.—C. subrotundus multiplex, tuberculis cylindraceis barbatis supra sulca exaratis proliferis. *p* 327.

C. viviparus. *Fraser. catal.* 1813.

In Upper Louisiana. ♄. *v. v. s fl. in Hort. Lambert.* Resembles *C. mammillaris;* the flowers are large and red; the fruit the size of a grape, green and eatable. In the same collection are also the two other species mentioned in Fraser's Catalogue; but only seeing the plants without flowers, I could not define their characters.

Cratægus turbinata.—C. inermis, glabra; foliis cuneato-obovatis incisis serratis, corymbis paucifloris, pedicellis brevibus, fructibus turbinatis. *p.* 336.

In Carolina and Virginia ♄. June. *v. v.; v. s. in Herb. Sherard* This species approaches near to *C. spathulata*, but its fruit distinguishes it from all the rest of the American species.

Rosa lutescens.—R. germinibus globosis pedunculisque glabris, ramulis hispido-spinosis, foliolis (7) glabris ovalibus acuminato-serratis, petiolis inermibus, floribus so- *p.* 345.

litariis, laciniis calycis lanceolatis cuspidatis, petalis ovalibus obtusissimis.

In Carolina. ♄. May, June. *v. v. in Hort. Lee.* Flowers white, with a faint tint of yellow.

p. 352. *Geum triflorum.*—G. pilosum; caule simplici subtrifloro, foliis radicalibus interrupte pinnatis, foliolis cuneatis incisо-dentatis, petalis oblongis longitudine calycis, aristis longissimis villosis.

In Upper Louisiana. *Bradbury.* ♃. *v. s. in Herb. Bradbury.* The aristas of the seeds are resembling those of *Clematis.*

p. 356. *Potentilla arguta.*—P. erecta, simplex, pubescens; foliis pinnatis, foliolis ovatis argute dentatis, exterioribus majoribus, stipulis rhomboideis incisis, floribus terminalibus conferto-corymbosis.

In Upper Louisiana. *Bradbury.* ♃. *v. s. in Herb. Bradbury.* Flowers yellow; leaves large.

p. 384. *Clematis Catesbyana.*—C. scandens, pubescens; foliis biternatis, foliolis subcordatis trilobis, paniculis divaricato-dichotomis, petalis staminibus longioribus, floribus subdioicis.

In South Carolina. *Catesby.* ♄. *v. s. in Herb. Sherard.* Resembles *C. virginica.* The filaments of the female flowers are membranaceous, linear, and without anthers.

p. 385. *Clematis ovata.*—C. erecta, simplex; foliis ovatis sensim acutis brevi-petiolatis glabris utrinque reticulato-venosis, inferioribus subcordatis pedunculo terminali solitario unifloro, aristis plumosis longissimis.

In South Carolina. *Catesby.* ♃. *v. s. in Herb. Sherard.* Resembles *C. integrifolia.* In the Sherardian Herbarium the figure of *Pluk. mant. t.* 379. *f.* 4. is quoted; but I consider that figure to be an imperfect specimen of a *Clematis* with compound leaves.

p. 395. *Ranunculus multifidus.*—R. foliis tripartito-multifidis: laciniis incisis approximatis, caule natante, foliolis calycis subrotundis petalis paulo brevioribus.

In Upper Louisiana. *Bradbury.* ♃. *v. s. in Herb. Bradbury.* Flowers yellow; resembles *R. fluviatilis.*

p. 424. SEYMERIA. *Cal.* campanulatus, 5-partitus: laciniis linearibus, æqualibus. *Cor.* campanulata. *Tubus* calyce

vix longior. *Limbus* 5-fidus: laciniis subæqualibus, oblongis, patentibus. *Filamenta* 4. brevia, fauce inserta *Antheræ* erectæ, oblongæ, nudæ, longitudine corollæ. *Stylus* declinatus, longitudine staminum. *Stigma* simplex. *Caps.* subrotunda, 2-locularis, 2-valvis, apice dehiscens.

Seymeria tenuifolia.—S. glabriuscula, virgatim paniculata; foliis setaceo-pinnatifidis, laciniis divisis.

Gerardia Cassioides. *Vol.* 2. *p.* 424.

In dry sandy woods of Carolina and Georgia. ☉. July, Aug. *v. s. in Herb. Sherard.* Flowers small, dark yellow.

Seymeria pectinata.—S. viscido-pubescens, brachiatim ramosissima; foliis pectinato-pinnatifidis, laciniis indivisis linearibus acutis.

In South Carolina. *Catesby.* ☉ July. *v. s. in Herb. Sherard.* Flowers the size and colour of the preceding. While writing the genus *Gerardia,* I strongly suspected *G. cassioides* to be a distinct genus, which already had been considered so by Walter and Gmelin. Having no materials then at hand, I followed the authority of Michaux. But finding in the Sherardian Herbarium not only that species, but also a new one described here, I was convinced of its generic distinction, the character of which is well expressed in *Walt. fl. car.* 171. I have named this genus in memory of the late Henry Seymer, Esq. of Hanford, Dorsetshire, a gentleman much celebrated for his extensive collections in natural history, and for whom Dr. Solander had so great a regard as to dedicate the plant which afterwards was called *Solandra grandiflora* to his memory, as I have seen it named *Seymera* in the Herbarium of A. B. Lambert, Esq., in Dr. Solander's own handwriting.

Chelone Lyoni.—C. glabra, ramosa; foliis petiolatis cordato-ovatis serratis, spicis terminalibus densifloris. *p.* 427.

In Upper Carolina and Georgia. *Lyon.* ♃. July—Sept. *v. s. in Herb. Lambert.* This is a very fine and large species; flowers purple.

Pentstemon erianthera.—P. caule pumilo pubescente, foliis oblongis acutis obsolete denticulatis subhirsutis, floribus racemosis, pedicellis plerumque solitariis, filamento sterili exerto apice revoluto longitudinaliter barbato, calycis foliolis linearibus hirsutissimis. *p.* 428.

P. erianthera. *Fraser. catal.* 1813.

In Upper Louisiana. *Bradbury* ♃. *v. s. in Herb. Bradbury.* Not above a span high; flowers large in proportion, of a deep purple; the hairs of the infertile anthera are long and golden yellow. It approaches near to *P. frutescens.*

Pentstemon angustifolia.—P. caule vix pubescente, foliis glabris longe linearibus integerrimis, floribus racemoso-paniculatis, filamento sterili reliquis breviore superne subhirsuto, calycis foliolis lanceolatis glabris.

P. angustifolium. *Fraser. catal.* 1813.

In Upper Louisiana. *Bradbury.* ♃. *v. s. in Herb. Bradbury.* Flowers resembling those of *P. pubescens.*

Pentstemon glabra.—P. caule foliisque glabris, foliis subamplexicaulibus ovato-oblongis integerrimis, floribus racemoso-paniculatis, filamento sterili nudo clavato apice retuso, calycis foliolis subrotundis acuminatis, laciniis corollæ subæqualibus rotundatis, antheris hirsutis.

In Upper Louisiana. *Bradbury.* ♃. *v. s. in Herb. Bradbury.* A fine and large species; flowers dark purple.

Pentstemon Bradburii.—P. glaberrima; foliis subamplexicaulibus ovato-oblongis integerrimis, superioribus subrotundis, floribus verticillatis, filamento sterili apice brevi barbato, calycis foliolis oblongis acutis.

P. grandiflorum. *Fraser. catal.* 1813.

This is the finest and largest of all the species; the flowers very large, and variable in their colour.

p. 431. *Castilleja sessiliflora.*—C. foliis apice palmato-incisis, floribus sessilibus.

In Upper Louisiana. *Bradbury.* ♃. *v. s. in Herb. Bradbury.*

Caulis ramosus, teres, dense pubescens. *Folia* alterna, sessilia, utrinque pubescentia, apice in lacinias 3 - 5. divisa: laciniis linearibus, elongatis, acutis. *Flores* in apice ramorum axillares, solitarii, sessiles, coccinei? *Calyx* tubulosus, basi ventricosus, 4-fidus? *Corolla* ringens. *Labium* superius acutum? *inferius* trifidum: laciniis linearibus, acutis, labio superiore vix brevioribus. *Stamina* fauci corollæ inserta, filiformia, longitudine labii superioris, glabra. *Antheræ* lineares. *Stigma* exertum.

This highly interesting plant has some distant affinity with *C. fissifolia*. *Smith ic. ined. t.* 40.

Cleome pinnata.—C. subpubescens, hexandra; foliis pinnatis, foliolis lanceolatis inferne attenuatis rariter dentatis, superioribus confluentibus, floribus racemosis, pedicellis aggregatis, p. 441.

In Upper Louisiana. *Bradbury. v. s. in Herb. Bradbury.* About two feet high; flowers of a bright yellow; the pods are on very long pedicels.

Polygala corymbosa.—P. caule inferne simplicissimo, summitate ramosa corymbose multifloro, foliis linearibus.—*Mich. fl. amer.* 2 *p.* 54. p. 446.

P. cymosa. *Walt. fl. car.* 179.

In swamps: Carolina to Florida. ♃. July, Aug. *v. s.* Flowers yellow, when dried green.

Vicia stipulacea.—V racemis subquadrifloris folio longioribus, stipulis foliiformibus basi semisagittatis integris, foliolis 8--10. lineari-lanceolatis utrinque acutis nervosis glabris. p. 472.

In Upper Louisiana. *Bradbury.* ♃. *v. s. in Herb. Bradbury.*

Caulis subtetragonus, striatus, simplex, vix pedalis. *Foliola* 8—10 opposita lineari-lanceolata acuta glabra utrinque elevato-nervosa. *Stipulæ* longitudine foliorum, basi semisagittatæ, auriculis acutis. *Cirrhus* obsoletus, setaceus. *Pedunculi* axillares folio duplo longiores. *Racemi* plerumque 4-flori. *Flores* magni, purpurei. *Legumen* glabrum.

Ervum multiflorum.—E. racemis pedunculatis multifloris folio longioribus, leguminibus lanceolatis glabris sub-4-spermis, stipulis ovatis acuminatis, foliolis linearibus obtusis, cirrhis nullis, caule paniculató.

Astragalus tenellus. *Vol.* 2. *p.* 473.

In Upper Louisiana. *M. Lewis* and *Bradbury.* ♃. Aug. *v. s. in Herb. Lewis. nec non Bradbury.*

Caulis erectus, paniculato-ramosus, teres. *Ramuli* juniores sericei. *Foliola* plurima, alterna linearia, obtusa, glabriuscula. *Cirrhi* nulli. *Stipulæ* ovatæ longe acuminatæ. *Racemi* axillares, elongati, pedunculati. *Bracteæ* minutæ, ovatæ, acuminatæ, vix longitudine pedicellorum. *Pedicelli* flore breviores. *Flores* parvi albidi, vexillo oblongo. *Calyx* sericeus, corolla triplo brevior, dentibus subulatis. *Stylus* filiformis, glaber,

inflexus. *Stigma* acutum, glabrum. *Legumina* pendula, oblongo-lanceolata, glabra, 3–4-sperma.

Of this plant I had an imperfect specimen in the Lewisian Herbarium, together with some pods of an *Astragalus*, which led me into the error of placing it under that genus; but having since seen fine specimens in the collection of Mr. Bradbury, I was enabled to correct this error.

Astragalus racemosus.—A. caulescens, erectus, subpubescens; foliolis (21) lanceolatis superne sensim minoribus, stipulis ovatis acuminatis, spicis racemosis pedunculatis folio longioribus, densifloris, bracteis linearibus pedicellis brevioribns, calycibus glabriusculis, dentibus subulatis.

In Upper Louisiana. *Bradbury.* ♃. *v. s. in Herb. Bradbury.* Flower white. Resembles *A. carolinianus.*

Astragalus carnosus.—A. caulescens, diffusus, albido-sericeus, foliolis (21) ellipticis supra glabris, subtus sericeis, stipulis subulatis, spicis subsessilibus, leguminibus globosis inflatis carnosis.

In Upper Louisiana. *Bradbury. v. s. in Herb. Bradbury.* The fruit resembles that of *A. psysodes.* Flowers appear to have been white. This is probably the *A. crassicarpus Fraser. catal.* 1813.

p. 473. *Astragalus triphyllus.*—A. acaulis, argenteus, foliis ternatis, foliolis sessilibus lanceolatis, scapo nullo, leguminibus sessilibus oblongis.

In Upper Louisiana. *Bradbury.* ♃. *v. s. in Herb. Bradbury.* A most singular species, the leaves of a shining silver colour; the flowers were too much decayed when I examined the specimens.

Oxytropis Lambertii.—O. acaulis, sericeo-pilosa; foliolis (19) lanceolato-ellipticis utrinque acutis, scapis folia æquantibus, spicis capitatis, bracteis linearibus longitudine calycis.

On the Missouri. *Bradbury.* ♃. Aug. Sept. *v. v. in Hort. Lambert.* Flowers a beautiful purple. It approaches near to *O. argentata* and *setosa.*

p. 474. *Dalea aurea.*—D. sericeo-villosa; spicis oblongis terminalibus solitariis, bracteis oblongis acuminatis calycis longitudine ciliatis, calycibus villosissimis, foliis sub-3-jugis oblongis obovatisque obtusis.

D. aurea. *Fraser. catal.* 1813.

In Upper Louisiana. *Bradbury.* ♃. *v. s. in Herb. Bradbury.* Flowers bright yellow, in oblong hairy spikes.

Dalea laxiflora.—D. glabriuscula; caule superne ramosissimo, ramis laxis elongatis, spicis paniculatis elongatis, floribus remotiusculis, bracteis subrotundis mucronatis carinatis, floribus enneandris, calycibus sericeo-villosis, foliis sub-4-jugis linearibus.

D. enneandra. *Fraser. catal.* 1813.

In Upper Louisiana. *Bradbury.* ♃. *v. s. in Herb. Bradbury.* This is the tallest of the genus. The white flowers are in narrow spikes, and have remarkable silky calyces, which form a fine contrast with the rest of the plant, being entirely destitute of hair.

Psoralea elliptica.—P. subpubescens; foliis ternatis: foliolis ellipticis obtusis, pedunculis axillaribus folio longioribus, spicis conferto-paucifloris, dentibus calycis abbreviatis. *p.* 475.

In Upper Louisiana. *Bradbury.* ♃. *v. s. in Herb. Bradbury.* Flowers small, white with a tinge of purple.

Psoralea longifolia.—P. undique sericeo-villosa; foliis ternatis: foliolis linearibus elongatis, spicis axillaribus pedunculatis laxifloris folio brevioribus, dentibus calycis bracteisque subulatis.

In Upper Louisiana. *Bradbury.* ♃. *v. s. in Herb. Bradbury.* Flowers midde-sized, apparently white. The leaves have none of those glandular dots so general in this genus.

Psoralea cuspidata.—P. villosa; foliis digitato-quinatis, foliolis obovatis mucronatis integerrimis, spicis axillaribus densifloris, laciniis calycis bracteisque ovatis cuspidatis conspicue punctatis. *p.* 476.

P. macrorhiza. *Fraser. catal.* 1813.

In Upper Louisiana. *Bradbury.* ♃. *v. s. in Herb. Bradbury.* This species has some resemblance to *P. esculenta.*

Cytisus rhombifolius.—C. pubescens; racemis terminalibus erectis, leguminibus falcatis subarticulatis, foliolis oblongo-rhomboideis obtusis, stipulis rotundato-ovatis obliquis. *p.* 489.

C. rhombifolius. *Fraser. catal.* 1813.

In Upper Louisiana. *Bradbury.* *v. s. in Herb. Bradbury.* The stipulæ are large and foliaceous; the specimen I have seen was in fruit, and Mr. Bradbury has seen only one plant in flower.

p. 505. *Troximum glaucum.*—T. scapo unifloro glabriusculo, foliis lineari-lanceolatis planis integerrimis utrinque glaucis, calycinis foliolis imbricatis acutis pubescentibus.—*Vol.* 2. *p.* 505.

Troximum cuspidatum.—T. scapo unifloro superne subtomentoso, foliis linearibus margine undato tomentosis, calycinis foliolis imbricatis cuspidatis glabris.

In Upper Louisiana. *Bradbury.* ♃. *v. s. in Herb. Bradbury.* Flowers large, yellow. Resembles the preceding.

p. 519. *Hymenopappus scabiosæus.*—H. candicanti-lanuginosus; foliis profunde pinnatifidis, laciniis lineari-oblongis subdentatis, floribus simpliciter corymbosis, calyce sub-10-phyllo flosculis majore, seminibus pubescentibus.—*Vol.* 2. *p.* 519.

Hymenopappus tenuifolius.—H. candicanti-lanuginosus; caule corymboso-ramoso, foliis subbipinnatifidis, laciniis anguste linearibus integris, floribus composite corymbosis, pedicellis confertis, calyce sub-6-phyllo flosculis breviore, seminibus villosissimis.

In Upper Louisiana. *Bradbury.* ♂. *v. s. in Herb. Bradbury.* At first sight I considered this to be the same with the preceding species; but comparing the figure and description in the *Journal d'Histoire Naturelle, vol.* 1. *p.* 16. *t.* 1. with my specimen, I found them materially distinct. The flowers are white, and not half the size of the former.

p. 521. *Artemisia dracunculoides.*—A. glabra; ramis nutantibus, foliis longo-linearibus subfalcatis, radicalibus trifidis, racemis foliosis, pedicellis brevibus, floribus erectis, calycibus subglobosis paucifloris, foliolis scariosis.

A. nutans. *Fraser. catal.* 1813.

In Upper Louisiana. *Bradbury.* ♃. *v. s. in Herb. Bradbury.* From three to four feet high; flowers very small.

p. 532. *Erigeron hirsutum.*—E. undique hirsutissimum; caule sim-

plici unifloro, foliis linearibus integerrimis enervibus, calycibus hirsutis.

E. uniflorum. *Willd. sp. pl.* 3. *p.* 1960 ?

In Upper Louisiana. *Bradbury.* ♃. *v. s. in Herb. Bradbury.* Not above five inches high; flowers large, ray white and long.

Galardia acaulis.—G. pilosa; scapo unifloro, foliis lineari-spathulatis, paleis pappi (5—7) ovatis brevi-aristatis. *p.* 573.

In Upper Louisiana. *Bradbury.* ♃. *v. s. in Herb. Bradbury.* Not above a span high; flower small, simply yellow.

Iva axillaris.—I. herbacea, subpilosa; foliis plerumque oppositis lineari-lanceolatis integerrimis, floribus axillaribus solitariis nutantibus, calycibus simpliciusculis, foliolis ovatis. *p.* 580.

In Upper Louisiana. *Bradbury.* ☉. *v. s. in Herb. Bradbury.* About a span high; flowers white.

Ambrosia hispida.—A. undique canescenti-hispida; foliis bipinnatifidis, laciniis incisis, racemis terminalibus subpaniculatis. *p.* 581.

In South Carolina. *Catesby.* ☉. *v. s. in Herb. Sherard.* About a foot high; flowers larger than *A. trifida.*

Orchis herbiola.—O. cornu filiformi germine breviore, labello oblongo obtuso basi utrinque dentato; palato unidentato, bracteis flore longioribus. *p.* 587.

Habenaria herbiola. *Brown in Ait. kew. ed.* 2. *vol.* 5. *p.* 193.

In North America. *Fothergill.* ♃. +. This species, unknown to me, appears to approach near to *Orchis fuscescens.*

Aristolochia tomentosa.—A. caule volubili frutescente, foliis petiolatis cordatis subtus tomentosis, pedunculis solitariis ebracteatis, corollæ tubo retorto; limbo subæqualiter trifido: ore hiante. *Sims in bot. mag.* 1369. *p.* 596.

On the mountains of South Carolina. *Lyon.* ♄. June. *v. v.* Resembles *A. Sipho.* Flowers yellow.

Alnus glauca.—A. foliis oblongis acutis duplicato-serratis subtus glaucis, axillis venarum nudis, stipulis lanceolatis.—*Mich. arb* 3. *p.* 322. *t.* 4. *p.* 622.

In New England and on the high mountains of Pensylvania. ♄. March, April. *v. v.* This shrub, which is known by the name of *Black Alder,* has a strong resemblance to *A. incana.*

ADDENDA ET CORRIGENDA.

VOL. I.

pag.

1 lin. 4 loco *Monoicum* lege *Monoica.* This error occurs in this and the next table of genera.
15 adde *Monoicum.*
22 adde *Monoica.*
23 adde *Monoica.*
3 7 *Hippuris vulgaris.* In the Sherardian Herbarium are specimens collected at Hudson's Bay which I compared with the European *Hippuris*, and found them entirely distinct. I rather suspect this plant ought to be placed among the *Filices.*
6 5 adde *Dioica.*
7 12 adde *Dioica.*
13 adde *Dioica.*
15 adde *Monoica.*
7 ab infer. adde *Mich. arb.* 3. *p.* 50. *t.* 6.
8 17 ab infer. lege *Mich. arb.* 3. *p.* 122. *t.* 12.
11 ab infer. lege *Mich. arb.* 3. *p.* 118. *t.* 11.
3 et 5 *ab infer.* delendæ sunt.
9 5 delenda est.
6 lege *Mich. arb.* 3. *p.* 106. *t.* 8.
14 dele *Mich. arb.* ejus loco *Catesb. car.* 1. *t.* 80.
19 dele *Catesb. car. t.* 80. et lege *Mich. arb.* 3. *p.* 128. *t.* 13.
28 lege *Mich. arb.* 3. *p.* 112. *t.* 9.
3 *ab infer. lege* F. viridis. *Mich. arb.* 3. *p.* 115. *t.* 10.
10 5 adde *Mich. arb.* 3. *p.* 217. *t.* 6.
16 Monarda Kalmiana, *adde* Icon. *t.* 1.
17 13 *post* Flowers *adde* pale.
21 Ceratiola ericoides, *adde* Icon. *t.* 13.
24 25 Rynchospora *lege* Rhynchospora.

pag. lin.

26 30 dele genus ANTHISTIRIA.

30 Iris cuprea, *adde* I. fulva. *Bot. mag.* 1496.
Iris verna, *conf. Bot. mag.* 1393. *observ.*
Iris prismatica, *adde Bot. mag.* 1504.

42 16 *loco* foliis *lege* foliisque.

43 18 loco *E* lege *C.*

61 9 et 14 loco *Dilepycum* lege *Dilepyrum.*

62 Milium amphicarpon *adde* Icon. *Tab.* 2.

72 6 ab infer. loco *A* lege *S.*

95 23 *dele* 2. *ante* biloculari.

96 7 *ab infer. loco* involucro *lege* involucris.

98 8 ad marginem loco *data* lege *cordata.*
ultima, loco caule *lege* scapo.

102 *Oldenlandia glomerata.* Willdenow's and Lamarck's synonym seem to belong to a very ambiguous species of this genus, or, as I strongly suspect, to *Ludwigia nitida*, as I have seen this plant in the Sherardian Herbarium under the name and synonyms of *Oldenlandia uniflòra.*

115 Planera aquatica, *adde* P. ulmifolia. *Mich. arb.* 3. *p.* 283.

126 18 loco *Gonolobus* lege *Gonolobium.*
20 *loco* Appendix *lege* Appendices.
inter 224 et 225 insere CEROPEGIA. *Folliculi* 2. erecti. *Sem.* plumosa. *Cor.* urceolatæ limbus connivens.

128 inter 244 et 245 insere SISON. *Fructus* ovatus, striatus. *Invol.* sub-4-phylla.

138 8 *ab infer. post* palustris *adde* β. inflata.

146 Ipomœa Jalapa, *adde* Convolvulus Jalapa. *Bot. mag.* 1572.

158 Pinkneya pubescens, *adde Mich. arb.* 2. *p.* 276. *t....*

159 11 et 12 delendæ sunt.

163 Ribes resinosum, *adde* Icon. *Bot. mag.* 1583.

164 7 ab infer. adde *Mich. fl. amer.* 1. *p.* 109.

165 7 *ab infer. loco* lacustris *lege* lacustre.

166 1 *loco* subgeminis *lege* sub gemmis.

167 6 adde *Bot. mag.* 1479.

169 ultima, ante *utrinque* adde *foliis*,

175 Claytonia lanceolata, *adde* Icon. *Tab.* 3.

177 Nyssa villosa, *adde* N. sylvatica. *Mich. arb.* 2. *p.* 260. *t.* 21.
Nyssa biflora, *adde Mich. arb.* 2. *p.* 265. *t.* 22.

pag.	lin.	
177		Nyssa candicans, *adde Mich. arb.* 2. *p.*237. *t.* 20.
178		Nyssa tomentosa, *adde Mich. arb.* 2. *p.* 252. *t..*
181	1	loco 1187 lege 1181.
186	1	adde *Bot. mag.* 1551.
187	20	*loco* unifloribus *lege* unifloris.
199	ultima,	adde *Mich. arb.* 3. *p.* 269. *t....*
200		Ulmus fulva, *adde* U. rubra. *Mich. arb.* 3. *p.* 278. *t....*
		Ulmus alata, *adde Mich. arb.* 3. *p.* 275. *t....*
		Celtis occidentalis, *adde Mich. arb.* 3. *p.* 226. *t.* 8.
		Celtis crassifola, *adde Mich. arb.* 3. *p.* 228. *t.* 9.
206	17	*loco* ramosissima *lege* ramosissimo.
219		Berberis aquifolium, *adde* Icon. *Tab.* 4.
		Berberis nervosa, *adde* Icon. *Tab.* 5.
221		Gleditschia triacanthos, *adde Mich. arb.* 3. *p.* 164. *t....*
		Gleditschia monosperma, *adde Mich. arb.* 3. *p.* 169. *t....*
223		Allium angulosum, *adde* A. stellatum. *Bot. mag.* 1576.
224		Conostylis americana, *adde* Icon. *Tab.* 6. Lophiola aurea. *Bot. mag.* 1596. In this figure the flowers are more than twice the size of those in its native state.
226		Phalangium Quamash, *adde* Scilla esculenta. *Bot. mag.* 1574. Having not seen the living plant when I made my description, I was misled by Mr. Lewis in describing one of the petals to be dependent and the rest ascendent, which is not the case.
228		Lilium pudicum, *adde* Icon. *Tab.* 8.
232		Streptopus roseus, *adde* Uvularia rosea. *Bot. mag.* 1489.
		Streptopus lanuginosus, *adde* Uvularia lanuginosa. *Bot. mag.* 1490.
240		Chamærops Palmetto, *adde Mich. arb.* 2. *p.* 186. *t....*
		Nolina georgiana, *adde* Asphodelus minor albus ex Provincia mariana. *Pluk. mant.* 29. *t.* 342. *f.* 1. (pars paniculæ), secundum *Herb. Sherard.* Very fine specimens of this rare plant I found in the Sherardian Herbarium collected by M. Catesby on the Savannah river. It resembles Helonias graminea, *Bot. mag.* 1599.

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exceedingly, and I should have taken it to be the same if the pedicels were not solitary, and, as Mr. Kerr observes, the germ polyspermous, which in *Noline* is only 3-spermous.

242 Veratrum viride, *adde* Helonias viridis. *Bot. mag.* 1096.

Veratrum angustifolium.—Of this species I have seen a fine specimen in the Sherardian Herbarium, under the name Phalangium canadense majus ramosum, Iridis folio, by which it appeared to grow likewise in Canada. The panicle was monoic not dioic, as I observed it in Virginia, the seeds lanceolate, membranaceous.

242 14 *ab infer. loco* legumine *lege* tegumine.

243 23 *loco* thier *lege* their.

Helonias tenax, *adde* Icon. *Tab.* 9.

255 Æsculus flava, *adde Mich. arb.* 3. *p.* 238. *t...*

Æsculus glabra, *adde Mich. arb.* 3. *p.* 242.

259 4 ab infer. adde nomen specificum, *rosmarinifolium.*

263 dele *Oenothera scapigera. Ejus loco vid.* Supplementum *sub nomine* Oenothera cæspitosa.

264 Menziesia globularis, *adde* M. ferruginea β. *Bot. mag.* 1571. Though Dr. Sims considers this species only as a variety, I still think the distinctions given by A. Salisbury, Esq. are sufficient to keep it as a species.

265 Diospyros virginiana, *adde Mich. arb.* 2. *p.* 195. *t.* 12.

266 Acer rubrum, *adde Mich. arb.* 2. *p.* 210. *t.* 14.

Acer dasycarpum, *adde Mich. arb.* 2. *p.* 205. *t.* 13.

Acer saccharinum, *adde Mich. arb.* 2. *p.* 218. *t.* 15.

Acer nigrum, *adde Mich. arb.* 2. *p.* 238. *t.* 16.

267 Acer striatum, *adde Mich. arb.* 2. *p.* 242. *t.* 17.

268 Acer Negundo, *adde Mich. arb.* 2. *p.* 247. *t.* 18.

282 *inter* AGROSTEMMA *et* OXALIS, *adde* 394. LYCHNIS. *Cal.* 1-phyllus, oblongus, lævis. *Pet.* 5. unguiculata, limbo subbifido. *Caps.* 1—5-locularis.

6 loco 394 lege 395.

10 loco 395 lege 396.

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	12	loco 396 lege 397.
	15	loco 397 lege 398.
283		Gaultheria serpyllifolia, *adde Tab.* 13.
284		Gaultheria Shallon, *adde Tab.* 12.
289		Vaccinium nitidum, *adde Bot. mag.* 1550.
293		Andromeda floribunda, *adde Bot. mag.* 1566. In the extensive collection of the Sherardian Herbarium I met with most of the species of *Vaccinium* and *Andromeda* described in the present work; but meeting with none that were new, convinced me of the idea that this extensive family is nearly fully described here.
294		Andromeda mariana, *adde* var. ovalis. *Bot. mag.* 1579.
295		Andromeda arborea, *adde Mich. arb.* 3. *p.* 222. *t.* 7.
297		Kalmia latifolia, *adde Mich. arb.* 3. *p.* 147. *t.* 5.
		Rhododendron maximum, *adde Mich. arb.* 3. *p.* 144. *t.* 4.
298		*Rhododendron catawbiense.* I have had an opportunity of seeing this species in flower at Messrs. Lee and Kennedy's; the plant was not above a foot high; the flowers rose-coloured, similar to those of *R. maximum*; but having scarcely any marks or spots on the upper part of the corolla.
302		Mylocarium ligustrinum, *adde* Icon. *Tab.* 14. The original drawing of this plant was taken by me at Messrs. Bartrams' near Philadelphia.
303		*Monotropa morisoniana.* I had the pleasure of seeing, in the Oxford Herbarium, the original specimen from which the figure in Morison's History has been taken, and which so erroneously has been quoted under *Monotropa uniflora*.
304		Gymnocladus canadensis, *adde Mich. arb.* 2. *p.* 272. *t.* 23.
308		Podalyria mollis, *adde v. s. in Herb. Lambert.*
309		Virgilia lutea, *adde Mich. arb.* 3. *p.* 266. *t.* 3.
313		Tiarella cordifolia, *adde Bot. mag.* 1589.
327		BARTONIA. Since writing the above article I had an opportunity of seeing both species there described in a living state; the first in the garden of A. B. Lambert, Esq. at Boyton,

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where it flowered in very high perfection and formed seeds; the other at Messrs. Frasers', Sloane Square. From the latter I have taken the following description.

Bartonia nuda.—*Caulis* ramosus, angulatus, glanduloso-pubescens. *Folia* oblonga, sessilia, basi attenuata, repando-dentata, utrinque scabra, viridia. *Inflorescentia B. ornatæ. Flores* duplo minores, lutescentes, germine nudo, angusto. *Petala* 10. angusto-lanceolata. *Filamenta* exteriora longiora, plerumque castrata et petaloidea.

333 Tigarea tridentata, *adde* Icon. *Tab.* 15.

339 8 *ab infer. loco* linearibus *lege* lineari-

1 *ab infer. adde* Mespilus arborea. *Mich. arb.* 3. *p.* 68. *t.* 11.

340 Pyrus coronaria, *adde* Malus coronaria. *Mich. arb.* 3. *p.* 65. *t.* 10.

344 Rosa blanda. Differentia specifica *lege* R. germinibus globosis pedunculisque hispidis, ramis aculeato-hispidissimis, foliolis &c.

348 Rubus spectabilis, *adde* Icon. *Tab.* 16.

350 Dalibarda fragaroides, *adde Bot. mag.* 1567.

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362 Tilia glabra, *adde* T. americana. *Mich. arb.* 3. *p.* 311. *t.* 1.

363 Tilia pubescens, *adde Mich. arb.* 3. *p.* 317. *t.* 3.

Tilia heterophylla, *adde* T. alba. *Mich. arb.* 3. *p.* 315. *t.* 2.

365 Talinum teretifolium, *adde Pluk. alm. t.* 223. *f.* 2. *secundum Herb. Sherard.*

390 Caltha flabellifolia, *adde* Icon. *Tab.* 17.

404 *adde* CASTILLEJA. *Cal.* tubulosus unilabiatus. *Cor.* bilabiata, labio inferiore trifido, glandulis duabus inter lacinias. *Caps.* bilocularis.

411 Prunella pensylvanica, *adde* Icon. *Mart. cent. t.* 5.

423 Gerardia fruticosa, *adde* Icon. *Tab.* 18.

Gerardia quercifolia. *adde* Icon. *Tab.* 19.

424 Gerardia cassioides *dele. Ejus loco vide* Supplementum *sub nomine* Seymeria.

427 Mimulus Lewisii, *adde* Icon. *Tab.* 20.

Pentstemon lævigata, *adde Bot. mag.* 1425.

428 Pentstemon pubescens, *adde Bot. mag.* 1424.

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441	13	*loco* glabrum *lege* glabra.
451		Hopea tinctoria, *adde Mich. arb.* 3. *p.* 61. *t.* 9.
		Gordonia Lasianthus, *adde Mich. arb.* 3. *p.* 131. *t.* 1.
		Gordonia pubescens, *adde Mich. arb.* 3. *p.* 135. *t.* 2.
460		*inter* 591 *et* 592, *adde* CYTISUS. *Cal.* bilabiatus: labio superiore bidentato. *Carina* erecta. *Legum.* basi attenuatum, 1-loculare, compressum. *Stam.* monadelpha.
		inter 587 *et* 588, *adde* ERVUM. *Cal.* 5-dentatus, dentibus subulatis. *Stigma* simplex, incurvum. *Legum.* compressum, oligospermum. *Stam.* diadelpha.
465		Polygala Seneca, *adde* var. γ. tenuifolia—foliis linearibus, spicis confertifloris.
		On the Missouri. *Lewis and Bradbury. v. s.*
468		Lupinus villosus, *adde* Icon. *Tab.* 21.
471		Vicia americana, *adde v. s. in Herb. Bradbury.* var. foliis linearibus.
475		Psoralea esculenta, *adde* Icon. *Tab.* 22.
479		Lupinaster macrocephalus, *adde* Icon. *Tab.* 23.
480		Glycyrrhiza lepidota, *loco* sericeo-villosis *lege* utrinque lepidotis.
487		Robinia Pseudacacia, *adde Mich. arb.* 3. *p.* 245. *t.* 1.
488		Robinia viscosa, *adde Mich. arb.* 3. *p.* 262. *t.* 2.
499		Prenanthes Serpentaria, *adde* Icon. *Tab.* 24.
507		Liatris macrostachya, *adde Bot. mag.* 1411.
529		Senecio pauperculus, *adde v. s. in Herb. Bradbury.*
559	3	loco *t.* 4. lege *vol.* 5.
564		Amellus villosus, *adde* Sideranthus integrifolius. *Fraser. catal.* 1813. *v. s. in Herb. Bradbury.*
		Amellus spinulosus, *adde* Sideranthus pinnatifidus. *Fraser. catal.* 1813. *v. s. in Herb. Bradbury.*
571	7	*loco* acutis *lege* acuminatis.
572		Galardia bicolor, *adde* G. bicolor; caule ramoso, foliis caulinis lanceolatis subdentatis, radicalibus dentato-pinnatifidis, paleis pappi integerrimis aristatis. *Sims in Bot. mag.* 1602.
		Virgilia grandiflora. *Fraser. catal.* 1813.
		This elegant plant, which has been proved to be a perennial, though it was always considered

pag. lin.

an annual, is very variable in its size, colour, and number of florets in the ray. Native specimens collected by Mr. Bradbury are covered with rigid hairs, and have but one flower. Cultivated plants raised from seeds of the same species are more smooth, branch more or less; the leaves are deeper divided, and produce several flowers double the size.

575 Rudbeckia columnaris, *adde* R. columnaris; foliis pinnatifidis: foliolis lanceolatis, exterioribus ordinatim majoribus, receptaculo cylindraceo elongato. *Sims in Bot. mag.* 1601. This species is not above a foot high, and appears to be annual.

580 Iva ciliata, *adde* Iva annua. *Mich. fl. amer.* 2. *p.* 184.

585 Orchis ciliaris, *adde* Habenaria ciliaris. *Brown in Ait. kew. ed. 2. vol. 5. p.* 194.

Orchis cristata, *adde* Habenaria cristata. *Brown in Ait. kew. ed. 2. vol. 5. p.* 194.

587 Orchis viridis, *adde* Habenaria viridis. *Brown in Ait. kew. ed. 2. vol. 5. p.* 192.

Orchis bracteata, *adde* Habenaria bracteata. *Brown in Ait. kew. ed. 2. vol. 5. p.* 192.

588 Orchis hyperborea, *adde* Habenaria hyperborea. *Brown in Ait. kew. ed. 2. vol. 5. p.* 193.

Orchis fimbriata, *adde* Habenaria fimbriata. *Brown in Ait. kew. ed. 2. vol. 5. p.* 193.

589 Neottia cernua, *adde Bot. mag.* 1568.

Neottia repens, *adde* Goodyera repens. *Brown in Ait. kew. ed. 2. vol. 5. p.* 198.

590 Neottia pubescens, *adde* Goodyera pubescens. *Brown in Ait. kew. ed. 2. vol. 5. p.* 198.

Arethusa divaricata, *adde* Pogonia divaricata. *Brown in Ait. kew. ed. 2. vol. 5. p.* 203.

592 Cymbidium pulchellum, *adde* Calopogon pulchellus. *Brown in Ait. kew. ed. 2. vol. 5. p.* 204.

Cymbidium verecundum, *adde* Bletia verecunda. *Brown in Ait. kew. ed. 2. vol. 5. p.* 206. *Bot. mag.* 930.

594 Cypripedium parviflorum, *adde Bot. mag.* 911.

595 Cypripedium arietinum, *adde Bot. mag.* 1569

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